





Rising  
Above  
Pandemic





Vidya Prasarak Mandal's  
**B. N. Bandodkar College of Science (Autonomous), Thane**  
NAAC RE-ACCREDITED 'A' GRADE

# **SANYUJA 2020-21**

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(I/C Principal and Chairperson)

**Dr. (Mrs.) Poonam N. Kurve**  
(Co-ordinator, Magazine and Wallpaper Committee)

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# Principal's Desk

I congratulate and join the magazine committee, under leadership of Dr. (Mrs.) Poonam Kurve, in their joy and happiness to place before you our annual magazine Sanyuja for the current academic year 2020-2021. As you all are aware all academic activities during the year have been conducted online. Educational campuses which closed for active physical class room teaching from mid-March 2020, as part of COVID-19 related lockdown, have remained shut down and since switched successfully to virtual mode, to overcome the challenge of lockdown. I thank all our stakeholders and especially our enthusiastic learners for their continued positivity, support and valuable cooperation in tiding over this difficult period which has affected all of us.



As you know, our college was established in 1969 by the visionary Vidya Prasarak Mandal, Thane, on our beautiful island campus, appropriately known as Jnanadweep to cater to the higher educational needs of the then small town of Thane. During the last 52 years the college has developed, witnessing the growth and development of Thane into a mega city. Having successfully crossed several milestones, we have many achievements to be proud of, major amongst them being:

- Reaccreditation by NAAC with 'A' Grade,
- Awarded College with Potential of Excellence CPE by UGC,
- Winner of Best College Award of University of Mumbai,
- Supported under Star College Scheme of DBT,
- Selected for support under FIST by Ministry of Science & Technology
- ISO 9001: 2015 certification
- RBNQA commendation award from IMC
- Merits milestone leadership award of IMC
- Swatch Mahavidyalaya Award 2019
- BEQET Special Citation Award 2020 from NCQM
- Autonomy awarded by UGC from 2020-2021 onwards

There are miles to go and many more milestones to be crossed in future for consistent and sustained progress.

During this year of lockdown, our college is proud to have over 50 noteworthy achievements of our students and staff, a national award, an international award, special commendation from Director General NCC, three patents, over 124 activities for all-round development of students, organization of one international level competition and several other competitions and winning over 50 prizes in various intercollegiate competitions organized by Government agencies, University of Mumbai and various institutions and sports clubs all over India by our children. Along with all these honours, winning the overall championship in Literary events of the 52<sup>nd</sup> Youth Festival organized by the University of Mumbai and two second positions in University Level Finals in Avishkar Research Convention of the University of Mumbai and a bronze medal in an International Competition on Astronomy and Astrophysics Edition 2021 are all achievements par excellence involving hard work and dedicated efforts. Blood donation drives resulting in collection of 669 units of blood by our NCC and NSS units during lockdown, volunteering for Pulse Polio mission and Cowin vaccination drives by our NCC cadets and NSS volunteers also deserve mention here. I thank our Vidya Prasarak Mandal, Thane, under leadership of Dr. Vijay Bedekar and his team for their constant encouragement, staunch backing and support for all our activities for holistic development. I thank our dedicated staff, students, their parents and families for all these stellar achievements and wish you all the best.

**Dr. Moses Kolet**  
I/c Principal



## Editorial

Dear Readers,

The academic year began in lockdown state where, physically seeing and interacting with colleagues and students was beyond consideration. Online teaching, evaluation, was going on. An all new teaching methodology was being followed with the help of modern technology.

New Captain of the ship i.e. new Principal Dr. Moses Kolet had to maneuver the ship in the Ocean of Internet taking along faculty and students. Initially, it was a tough job for all parties involved.

Teachers continued to acquire better goals and students adjusted to the new normal. Thus, it was online academic year starting with online admissions and continued with online teaching and practicals. Both faculty and students participated in it through intermittent technical glitches, network issues and at times lack of infrastructure.

This issue of “Sanyuja” could materialize due to proactive contribution by my colleagues and students. It gives me immense pleasure in bringing out this issue under the current Covid 19 pandemic situation.

The issue could be released because of sincere and dedicated participation by the entire team of Sanyuja. Collection, editing, compilation and organizing of the data and writeup received, could happen because of their whole hearted support.

I am sure you all will be glad to read this 2020-21 issue of Sanyuja.

**Dr. Poonam N. Kurve**  
Editor



N.B. Please do not forget to move out with **mask**, maintain adequate **social distance** and follow proper **hygiene** to win against Covid19.

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## Principal's Report for the Academic Year 2020-2021

I am happy to present the annual report for the academic year 2020-2021. As you all are aware, this academic year has been executed under lockdown restrictions imposed by the authorities; the college which was closed for physical teaching since Mid-March 2020 has remained in this condition till today, following the imposition of lockdown owing to COVID-19 related pandemic scenario and measures implemented from time to time by the government to curb spread of the pandemic; and has since implemented online mode of delivery of learning material as well as online conduct of examinations. I am happy to state the college has made good progress in spite of the continued constraints of lockdown. The achievements are great, signifying indomitable spirit and strong resilience.

Special Awards and Recognitions received during the year:

**Thirty special Awards and Recognitions** were received by our college and its staff and students during this academic year as mentioned below:

No.	Award/ Honour	Conferred upon	Conferring/ Inviting Agency
1	Autonomous Status	B.N. Bandodkar College of Science	University Grants Commission University of Mumbai
2	Director General NCC Commendation Card	Lt. B. S. Dhumale (Associate NCC Officer)	Director General NCC NCC Directorate, new Delhi
3	Letter of Appreciation	B.N. Bandodkar College of Science (Autonomous)	1 Maharashtra Battalion NCC
4	BEQET (Best Educational Quality Enhancement Team) Special Citation Award	B.N. Bandodkar College of Science (Autonomous)	National Centre for Quality Management (NCQM)
5	Memento of Appreciation	B.N. Bandodkar College of Science (Autonomous)	Regional Transport Office (RTO) Thane
6	ISO 9001:2015 Certification	B.N. Bandodkar College of Science (Autonomous)	
7	Overall Championship in Literary Section in 53rd Intercollegiate University Youth Festival 2021	B.N. Bandodkar College of Science (Autonomous)	University of Mumbai
8	The Educational Excellence Award 2021- Transformational Leader of the Year Award 2021	Dr. Moses Kolet (I/C Principal)	Cosmopolitan Education Society's Valia Centre of Excellence and The Hindu

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9	Award of Excellence, and for educationally uplifting women through skill development and being socially active Principal	Dr. Moses Kolet (I/C Principal)	World Education Association, Kuwait, National Commission for Educational Accreditation , Kuwait, Panorama Training Institute, Kuwait
10	Invitation as External Academic and Administrative Auditor	Dr. Moses Kolet (I/C Principal)	Dept of Life Sciences, University of Mumbai
11	Invitation as Administrative Auditor	Dr. Moses Kolet (I/C Principal)	K.J. Somaiya College, Somaiya Vidyavihar, Mumbai
12	Nomination on Advisory Committee for National Level Multi Disciplinary Seminar on New Normal-Post COVID era	Dr. Moses Kolet (I/C Principal)	Keraliya Samajam Dombivali's Model College (Autonomous)
13	Nomination as University Nominee on BOS in Physics, Kelkar Education Trust's V.G. Vaze College (Autonomous)	Mr. S. G. Bapat Head, Department of Physics	Nominated by Hon'ble Vice Chancellor, University of Mumbai
14	Nomination as University Nominee on BOS in Zoology, Kelkar Education Trust's V.G. Vaze College (Autonomous)	Dr. S. D. Rathod Head, Department of Zoology	Nominated by Hon'ble Vice Chancellor, University of Mumbai
15	Invitation as Resource Person for State Level Seminar	Dr. (Mrs) M. Saha Head, Department of Botany	Smt. CHM College, Ulhasnagar
16	Invitation as Resource Person	Dr. (Mrs) M. Saha Head, Department of Botany	Rotaract Club of Thane Mid Town
17	Reviewer Certificate	Dr. (Mrs) M. Saha Head, Department of Botany	Asian Journal of Biotechnology and Bioresource Technology
18	Invitation as Resource Person	Dr. S. D. Rathod Head, Department of Zoology	M.B. Gada College, Bhiwandi
19	Invitation as Resource Person for International E-conference	Dr. Anita Goswami-Giri Department of Chemistry	Government of Maharashtra Government Vidarbha Institute of Science and Humanities
20	Invitation as Resource Person	Ms. Divya Nair Head, Department of Statistics	Institution of Chartered Accountants of India (ICAI), Western Region
21	Invitation as Resource Person	Dr. (Mrs) Rohini Mandhare Department of Chemistry	Government College, Khandola, Marcel, Goa
22	Invitation to contribute in Marathi Vishwakosh	Dr. Poonam Kurve	Department of Zoology Government of Maharashtra



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23	Invitation as Panel Judge for scientific research paper presentation competitions	Dr. Moses Kolet (I/C Principal)	National Conference on World Wetlands Day; Paryavaran Dakshata Mandal; Association for Teachers in Biological Sciences; Satish Pradhan Dnyanasadhana College, Thane
24	Invitation as Panel Judge	Dr. Ujjwala Gokhe Department of Physics	National Children's Science Congress District Round
25	Invitation as Panel Judge	Dr. Urmila Kumavat Department of Botany	National Children's Science Congress District Round
26	Invitation as Panel Judge	Dr. Pralhad Wagh Department of Chemistry	National Children's Science Congress District Round
27	Invitation as Guest speaker and Panel Judge	Mr. Rutik Thorat FYBSc (Biotechnology)	Biology and Bioengineering Summer Camp 2021, IIT Mumbai
28	All India Runners up in Debate on 'The India we want'	Mr. Atul Singh & Ms. Rutuja Adhav (SYBSc)	Confederation of Indian Industry CII
29	Winning Literary Events of University Youth Festival	Ms. Shambhavi Joshi TYBSc (Microbiology)	University of Mumbai
30	Represented India and our College and Qualified for prefinal round of International Astronomy and Astrophysics competition	Mr. Pranav Gohil FYBSc (PCM)	International Astronomy and Astrophysics Competition Edition 2021

### Patents published/ granted to members of staff:

Three patents were published/ granted to our teachers during this year as follows:

No.	Name	Patent details
1	Dr. Vinda Manjramkar (Jt)	Development of Mercury ion detection sensor using field effect transistor in waste water
2	Dr. Anita Goswami-Giri	Measurement of potential and chemical kinetics of lantadene by using immobilized enzyme
3	Dr. Anita Goswami-Giri	Ayurvedic Proprietary medicine for treatment of severe acute respiratory syndrome coronavirus-2 (SARS-CoV-2)

## Special Achievements by Members of Staff:

Eleven members of our staff cleared landmarks as mentioned below:

No.	Name	Department	Achievement
1	Dr. Anita Goswami-Giri	Chemistry	Published two Practical hand books for Chemistry students
2	Dr. Ajit Bhumkar	Chemistry	Awarded Ph.D. degree in Chemistry from University of Mumbai
3	Dr. Pralhad Wagh	Chemistry	Awarded Ph.D. degree in Chemistry from University of Mumbai
4	Ms. M.T. Wankhede	Mathematics	Awarded M.A. in Buddhist Studies from University of Mumbai
5	Ms. M.T. Wankhede	Mathematics	Cleared PET examination of University of Mumbai
6	Ms. Divya Nair	Statistics	Cleared PET examination of University of Mumbai
7	Ms. Mohini Kushwaha	Chemistry	Cleared PET examination of University of Mumbai
8	Ms. Aishwarya Deshmukh	Botany	Cleared PET examination of University of Mumbai
9	Mr. Aditya Mhatre	Botany	Cleared PET examination of University of Mumbai
10	Ms. Supriya Damle Human	Science	Cleared PET examination of University of Mumbai
11	Ms. Kaikashan Ansari (Guest Faculty)	ID Science	Qualified SET Examination

## Special Achievements by students:

Nineteen students exhibited extraordinary merit as depicted:

No.	Name	Department	Achievement
1	Ms. Sanyukta Bholay	Microbiology	Cleared examinations for further studies in TIFR
2	Ms. Swapna Deopurkar	Biotechnology	Cleared examinations for further studies in TIFR
3	Ms. Afrah Nawaz	Biotechnology	Cleared examinations for further studies in TIFR
4	Ms. Prachi Dumbre	Biotechnology	Cleared GATE examination with All India Ranking 60
5	Ms. Pranali Dhiware	Chemistry	Cleared IIT JAM examination , featuring in SC merit list
6	Ms. Riddhi Kumavat	Mathematics	Cleared IIT JAM examination , featuring in OBC merit list
7	Ms. Archana Marya	Chemistry	Cleared IIT JAM examination
8	Mr. Ryanston Rodrigues	Statistics	Awarded Inspire Scholarship of Government of India
9	Ms. Shruti S. Pathak	FYBSc	Awarded Inspire Scholarship of Government of India



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10	Mr. Aditya A. Waman	FYBSc	Awarded Inspire Scholarship of Government of India
11	Ms. Alphy Hari	Human Science	Hosted 5 Rotaract club webinars; co-hosted 5 of our webinars; designated Professional Development Director of Rotaract Club of Thane Midtown
12	Ms. Shravya Karkera	Human Science	Hosted Rotaract club webinars; co-hosted 3 of our webinars; Student member of presentation team for BEQET Award
13	Ms. Anushree Keni	Microbiology	Official campus Ambassador at International Model United Nations conference (IMUN 23.0); awarded special letter of recommendation from the Executive Chairman of IMUN; student partner for Internshala Student Partner Programme held in September 2020; Hosted National Debate Competition on International Women's Day; Student member of presentation team for BEQET Award
14	Ms. Tanvi Shirgaonkar	Chemistry	Selected for TERI (The Energy and Resource Institute) project in collaboration with 'The Ocean Clean Up' a Netherlands based NGO as surveyors.
15	Ms. Tejaswini M. Salgaonkar	Chemistry	
16	Ms. Mansi Gadag	IT	Member of Women's Cricket team playing at Maharashtra State Level and All India Level, securing 2nd position (team event) at National Level.
17	Ms. Nandini Tyagi	FYJC	Selected for Summer Camp of IIT Mumbai on Biology and Bioengineering on basis of All India Test (only 40 children selected from all over the country)
18	Mr. Rutik Thorat	Biotechnology	Awarded Student Felicitation by UN
19	Mr. Pranav Gohil	FYBSc	Merit in International Astronomy and Astrophysics event Completed ISRO Training Course on Disaster Management

### Service to the Nation during lockdown:

Our NCC and NSS units collected **669 units of blood** and contributed their might in service to the nation during lockdown as follows:

No.	Activity	Agency	Date/s	Venue	Work accomplished / Blood units collected
1	Blood Donation Drive	NCC	9/9/2020	College Gymkhana	56 units collected
2	Blood Donation Drive	NCC	8/12/2020	Thane Railway Station	156 units collected
3	Blood Donation Drive	NCC	6/1/2021	Thane Railway Station	160 units collected
4	Blood Donation Drive	NCC	16/1/2021	Konkan Bhavan	140 units collected
5	Blood Donation Drive	NCC & NSS	4/3/2021	Shri Sai Baba Mandir Trust Hall	35 units collected
6	Blood Donation Drive	NCC	8/4/2021 & 9/4/2021	Thane Railway Station	122 units collected
<b>Total Nos. of units of blood collected for Government Blood Banks</b>					<b>669 Blood Units</b>
7	National Pulse Polio Mission	NCC	26/9/2020-4/10/2020	As allotted	13 cadets participated and accomplished task allotted
8	Cowin Vaccination Drive against COVID-19	NCC	To be announced	To be announced	Officer and Cadets kept on alert awaiting deployment

### Memorandum of Understanding MoU Signed:

Our college has inked MoUs and MoAs (Memorandum of Agreement) during this academic year for mutual benefit of students and staff with departments/ institutions/ foundations mentioned below:

1. Department of Biophysics, University of Mumbai
2. KME Society's G. M. Momin Women's College, Bhiwandi
3. Quick Heal Foundation, Pune
4. The Energy and Resources Institute (TERI), Western Regional Centre, Mumbai

These collaborations provide multi-faceted academic, curricular, co-curricular and extra-curricular exposure to students and staff. Similar MoUs with other institutions are under process.

### Some Other Highlights of the Year:

- **Notifications conferring autonomy for our college** arrived from UGC and University of Mumbai.
- Dr. Moses Kolet was appointed as In-charge Principal from 1st August 2020 and assumed charge from Prin. S. Venkatraman.



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- On award of autonomy, NAAC awarded extension to the validity period of our accreditation by 5 years.
- Pending Audits for continuation of certification of ISO 9001:2015 for the years 2018-19 and 2019-20 were successfully conducted and certification up to 2022 has been obtained similarly service verification of staff was done by the Govt. of Maharashtra.
- The college was registered for ranking under NIRF.
- Meeting with UGC Experts for CPE was held with a positive potential outcome
- Our College won the prestigious **BEQET** (Best Educational Quality Enhancement Team) **Special Citation Award** of National Centre for Quality Management (NCQM). The presentation team comprising teachers and students, namely, Dr. (Mrs) M. Saha, Dr.(Mrs) V.D. Manjramkar, Lt. Bipin Dhumale, Mr. A.A. Kale, Mr. Vicky Patil, Ms. Divya Nair, Ms. Anushree Keni, Ms. Shravya Karkera and Mr. Govind Bohra (NCC) was headed by Dr. Moses Kolet
- Our College team was **Runners up in All India Debate competition** on the 'India We Want' of the Confederation of Indian Industry (CII).
- Our college won the **overall championship in Literary Section** at the 53rd Youth Festival 2021 of University of Mumbai.
- Lt. Bipin Dhumale was awarded the coveted **DG NCC commendation card and certificate** from Director General NCC, New Delhi.
- Shri Mahesh Chilakwad, Former Director, Bureau of Indian Standards, visited the college and addressed all Heads of Departments on Quality Procedures on 4th January 2021
- Teachers participated in workshops on 'Autonomy: What next' organized by Vidya Prasarak Mandal and Dr. V.N. BRIMS on 28/1/2021 and 1/2/2021.
- Prin. (Dr.) Rajendra Shinde, Principal, St. Xaviers College (Autonomous) Mumbai, conducted a workshop on 'Implementation of Autonomy for Institutions' for members of staff of VPM GOI.
- The college served as a centre for Examinations of UPSC, MPSC, Department of Posts as well as Institute of Chartered Accountants of India (ICAI) apart from the routine examinations.
- Over 350 of our enthusiastic FYJC and SYJC students were awarded special *Majhi Vasundhara Mitra* certificates from the Environment & Climate Change Department, Government of Maharashtra
- All mandatory meetings were conducted during the year, both in online as well as offline modes.

**Results:**

The college declared all results within the prescribed time limits. Results of the Semester II, IV and VI and PG courses in the last academic year 2019-20 are as follows:

The overall percentage of success in the last year's under-graduate F.Y. and S.Y.B.Sc. examinations was **50.75%** and **67.51%** respectively. In the T.Y.B.Sc. examination conducted by the University of Mumbai the overall percentage of passing was **96.01%**. **100%** results were achieved by the Departments of Chemistry, Statistics, Biochemistry, Computer Science and Human Science. At the Post-Graduate M.Sc. (Part II) level the overall result was **97.01%**. **100%** results were achieved by the Departments of Chemistry, Biodiversity Conservation and Wildlife Management, Environmental Science and IT. I congratulate the students, teachers and support staff for the results achieved.

**Tabulated Results of the last University Examinations conducted in First Half of 2020**

Subject	Pass Percentage (%)
F.Y.B.Sc.	50.75
S.Y.B.Sc.	67.51
T.Y.B.Sc.	96.01
M.Sc.	97.01

Subject wise results at Graduation (T.Y.B.Sc.) are as follows:

No.	Subject	Pass Percentage (%)
1	Botany	91.67
2	Chemistry	100.00
3	Mathematics	97.50
4	Physics	74.29
5	Statistics	100.00
6	Zoology	95.74
7	Biotechnology	90.00
8	Biochemistry	100.00
9	Computer Science	100.00
10	Human Science	100.00
11	Information Technology	99.08
12	Microbiology	88.89
	<b>Overall Result</b>	<b>96.01</b>

**Subject wise results at Post-Graduation (M.Sc.) are as follows:**

No.	Subject	Pass Percentage (%)
1	Chemistry	100.00
2	Biodiversity Conservation and Wildlife Mgmt.	100.00
3	Environmental Science	100.00
4	Physics	85.71
5	Information Technology	100.00
	<b>Overall Result</b>	<b>97.01</b>

**Scholarships and Other Grants Received:**

Scholarships and other grants received were as follows:

No.	Scholarship/ Agency	Amount (Rs)
1	Social Welfare Office	2804802/-
2	Jt. Director of H.E. Office	117800/-
3	Others	24287/-
	<b>TOTAL</b>	<b>2946889/-</b>
4	Book Bank Grant from University of Mumbai	54480/-

**Online Web Activities Conducted:**

As all are aware, this entire year has witnessed online teaching / Learning, assessment and evaluation. Apart from online lectures and practical sessions we have successfully conducted **122 events**, namely, **73** web conferences and seminars, **4** Dr. V.N. Bedekar Memorial Lectures, **11** courses and workshops, **One** National Conference, **2** pre conference workshops and **31** festivals, competitions and other popular events for students; adding up to **122 events** as mentioned below:

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

**Four lectures** in this series were conducted as Follows:



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No.	Topic and Date	Invited Speaker	Conducted by
1	<b>Role of Biotechnology in Circular Economy</b> 24/11/2020	Dr. P.K.S.M. Rahman, Teegene Biotech & TARA Biotech, UK	Departments of Biotechnology and Microbiology
2	<b>Electron Microscope: An Indispensable Tool in Biological Investigations</b> 30/11/2020	Dr. Manoj Borkar, Asso. Prof. & HOD, Carmel College for Women, Goa	Department of Zoology
3	<b>Nigeria: Culture, Economics and Education</b> 12/12/2020	Shri Clement Fawale Olajide Foreign Student Ambassador	Departments of Inter Disciplinary Science and Human Science
4	<b>Wetlands: Our Lifeline</b> 19/12/2020	Ms. Clara Correia, Nature Enthusiast, Alumnus, Former Vice Principal, St. John the Baptist Jr. College, Thane	Departments of Human Science, Inter Disciplinary Science and Anubandh Past Student Association

### Web Seminars and Conferences organized by the college:

Seventy three web events were organized as mentioned below:

No.	Web Seminar/ Conference/ Event and Date	Invited Speaker/s	Conducted by
1	Inquisitive Mind Series: Mendeley: A Reference Management Tool 14/5/2020	Mrs Kadambari Manjrekar Librarian	Research Committee and Department of Library
2	Acquire the Required Series 22/5/2020	Mr. Venkatraman I/C Principal	Department of Biochemistry
3	Inquisitive Mind Series: Google Scholar. 23/5/2020	Mrs Kadambari Manjrekar Librarian	Research Committee and Department of Library
4	Acquire the Required Series: Moving towards a corporate career 28/5/2020	CA Meera Bharati	Department of Biochemistry
5	Acquire the Required Series: Understanding and dealing with emotions 30/5/2020	Ms. Ishwari Marathe Clinical Psychologist	Department of Biochemistry
6	Inquisitive Mind Series: An Introduction to ORCID 1/6/2020	Dr. S.D. Rathod, Head, Department of Zoology	Research Committee and Department of Library
7	Inquisitive Mind Series: The Patenting Process 6/6/2020	Mr. Arun Kumar Yadav, General Manager, VIP Industries, Nasik	Research Committee and Department of Library

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8	Acquire the Required Series: Through the lens 7/6/2020	Ms. Snehal Patil Photographer	Department of Biochemistry
9	Inquisitive Mind Series: Understanding Journal Indexing and Citation Database. 13/6/2020	Dr. Rohini Mandhare, Department of Chemistry	Research Committee and Department of Library
10	Acquire the Required Series: Draw to De-stress 13/6/2020	Ms. Saili Rawool Saili's Art Zone	Department of Biochemistry
11	Inquisitive Mind Series: National Digital Library of India: A Useful Source of Information. 20/6/2020	Mrs Kadambari Manjrekar Librarian	Research Committee and Department of Library
12	Inquisitive Mind Series: Basic Understanding and Applications of Drawing Softwares. 26/6/2020	Dr. Sandeep Kahandal, Department of Chemistry	Research Committee and Department of Library
13	Inquisitive Mind Series: A New Way to Search in Web of Science 4/7/2020	Dr. Rohini Mandhare, Department of Chemistry	Research Committee and Department of Library
14	Inquisitive Mind Series: Research Misconduct 11/7/2020	Dr. Moitreyee Saha, Head, Department of Botany	Research Committee and Department of Library
15	Inquisitive Mind Series: Selection of Journals for Research Paper Publication 29/7/2020	Dr. Prabhakar Dongre, Head and Professor, Department of Biophysics, University of Mumbai	Research Committee and
16	Inquisitive Mind Series: Interdisciplinary Approach in Research (Change in Mindset) 5/8/2020	Dr. Vinda Manjramkar, Department of Zoology	Research Committee and Department of Library
17	Inquisitive Mind Series: Funding Opportunities for Research for Under-graduate and Post-Graduate Students 8/8/2020	Dr. P. Hemlatha Reddy, Former Principal, Sri Venkateswara College, Delhi University	Research Committee and Department of Library
18	Guidance on 'Cracking Entrance Examinations' 9/8/2020	Mr. Aditya Chhatre (Alumnus) Research Scholar, Max Planck Institute, Germany	Departments of Microbiology and Biotechnology
19	'Careers in Mathematics' 29/8/2020	Dr. R. G. Sapre, HOD (Mathematics) Gogate Joglekar College, Ratnagiri	Department of Mathematics

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20	'Teachers and Students' 5/9/2020	Shri Ashok Kumavat, President's Teacher Award Winner, Author, Motivational Speaker	NCC Unit
21	'Future Perspective of Digital Marketing'. 12/9/2020	Mr. Sanjog Meshram	Department of Mathematics
22	'Introduction to Clinical Trials' 19/9/2020	Dr. Vinay Pawar, Dept. of Basic Principles School of Ayurveda, Nerul	Department of Statistics
23	Digital Stree Shakti 'Cyber Security for Women 24/9/2020	Panel members from Maharashtra State Commission for Women	Cultural Activities Committee, Maharashtra State Commission for Women, Responsible Netism
24	New 'National Education Policy 2020' 15/10/2020	Dr. Vijay Joshi, Chief Consultant, RUSA Maharashtra	Anubandh: Past Students Association
25	'How to read Scientific Literature' and 'Introduction to MANAV - The Human Atlas Initiative' 15/10/2020	Dr. Anupama Harshal Wadavlikar	All Departments of Biological Sciences in association with Department of Biotechnology (DBT), IISER, Pune, NCCS
26	All India Webinar on 'Know India' and 'Inculcation of Cultural and Human Human Values and All Round Development of Youth' 17/10/2020	Dr. Sampson David, Former Jt. Secretary, Association of Indian Universities	Student Leadership Committee
27	'Nav Udyojika: A tribute to Indian Women Entrepreneurs" 22-25/10/2020	10 women entrepreneurs	Departments of Biotechnology and Microbiology
28	5 Days Workshop on 'How Statistics can make your life easy'. 21-26/10/2020	Ms. Sheetal Chabukswar (Alumni)	Anubandh: Past Students Association
29	Workshop on 'Empowering Young Minds: Building a Research Trajectory Art of Presentation 27/10	CA (Ms). Kauser Meherali	Research Committee and Library
30	Anubhav 28/10	Dr. Ushavati Shetty (Alumni)	- " -
31	Open Access 29/10	Mrs. Kadambari Manjrekar	- " -
32	Research Integrity 30/10	Dr. (Mrs) M. Saha	- " -
33	Research Journey 31/10 27-31/10/2020	Dr. Moses Kolet	- " -



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34	Constitution Day: Constitution of India 26/11/2020	Adv. Vinod Wagh	NCC and NSS Units
35	'Scope and Opportunity in Designing Field'-Career Counselling and Guidance 11/12/2020	Ms. Roshan Sharma Bhanwar Rathod Design Studio	Yuva Jager, Departments of Hindi and Marathi (Jr. College)
36	Scholarship Guidance Workshop 12/12/2020	Shri R. Shinde, Ms. Swati Khakham	Administrative Office and Anubandh Alumni Association
37	Career Counselling 15/12/2020	CA Kumavat, CA Manish, Chairman, Western Region, ICAI	Joint Activity of College and ICAI
38	Career Counselling Lecture and Guidance 16/12/2021	Officer Cadet. Kunal Singhvi Officers Training Academy, Chennai	NCC Unit and 1 MAH. BN NCC
39	World Minority Rights Day 18/12/2020	Dr. Rajkumar Kolhe, Founder Principal, JMF's Vande Mataram Degree College	Joint collaboration with Vande Mataram College, Dombivali
40	'Self Motivation' 1/1/2021	Lt. Col. Sandesh Kadam, Adm. Offr. 1 MAH BN NCC	NCC
41	Scholarship Guidance Workshop 12/1/2021	Mrs. S.Meshram, Shri. Athavale, Shri R. Shinde	Special Cell
42	Swami Vivekanand's Message to Youth and Positive Attitude 12/1/2021	Shri Mukesh Gaikwad	Vivekanand Centre for Youth
43	Scholarship Guidance 18/1/2021	Mrs. S. Meshram, Shri R. Shinde	Special Cell
44	Parakram Divas, 125th Birth Anniversary of Subhash Chandra Bose 23/1/2021	ACP Rajendra Patil Shri Shailesh Kondaskar	NCC and NSS Units
45	Safer Internet Day 9/2/2021	Mrs Snehal Adsule, Cyber Crime Branch, Thane	NSS Unit
46	' <i>Samaj Dhurin Chhatrapati Shivaji Maharaj: Ek Kalatit Vyaktimatva</i> ' 19/2/2021	Dr. (Mrs) Sharda Nivate	NSS Unit
47	Marathi Rajabhasha Divas 27/2/2021	Dr. Veena Gavankar	NSS, NCC, DLLE Units, WSC, Yuva Jager
48	National Science Day and Release of Journal 28/2/2021	Mr. Venkatraman, Former Editorial Director Ms. Alsaba Abdul Qadir, Avishkar Gold Medallist, Anveshan, West Zone Winner and All India Finalist	Research Committee, RSP Committee

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49	'Career in Wildlife and Forestry' 3/3/2021	Mr. Umeshchandra P. Dhotekar, Forest Officer, Nagpur	Green Force Nature Club
50	Mangroves- Distribution, Adaptation, Biodiversity and Conservation 3/3/2021	Mr. Hemant Karkhanis, Asso. Manager,, Mangrove Dept., Godrej & Boyce Ltd	Departments of Ev.S. and Biodiversity, Wildlife Conservation and Management
51	World Wild Life Day 3/3/2021	Mr. Ashutosh Joshi	NSS Unit
52	'Life of Ramanujan and his Inventions' 5/3/2021	Dr. Sudhakar Agarkar	Department of Mathematics
53	'Sui- Dhaga, How to Paint with Needle and Thread' 6 & 7/3/2021	Mrs. Swati Joshi	DLLE
54	International Women's Day Celebration and Felicitation of Women employees and students 8/3/2021	Adv. Kalpana Unadkat, Sr. Partner, Khaitan & Co.(WDC Dr. Hafiza Golandaz, Executive Director, International Leadership & Management Alliance Dr. Imama Dalvi, Neuro-Oncologist, Bombay Hospital	Women Development Cell Yuva Jager, Student Leadership Committee
55	Scientific Discussion on Fine points of Scientific Research Paper; 9/3/2021	Alumni Ms. Elizabeth Talker & Ms. Judith Talker	Journal Club. Alumni activity of Departments of Biotech & Microbiology
56	No Smoking Day 11/3/2021	Mr. Milind R. Patil, Narcotics Control Cell, Palghar/ Salaam Foundation	NSS Unit
57	Guidance for Entrance Examinations of Renowned Research Institutes 12/3/2021	Alumni Ms. Saeed Joshi Ms. Himadri Kale Ms. Manali Neman Ms. Komal Gawas	Departments of Biotechnology and Microbiology
58	Scholarship Guidance (Degree college) 23/3/2021	Mr. R. Shinde (Office)	Special Cell
59	Scholarship Guidance (Jr.) 23/3/2021	Mr. R. Shinde (Office) Special Cell	
60	Guidance for Competitive / Entrance Examinations and SOP Writing 22/3/2021	Mr. Aditya Chhatre (Alumnus) Research Scholar, Max Planck Institute, Germany	Departments of Microbiology and Biotechnology
61	'The Green Vaccine' 24/3/2021	Screening of Documentary	Department of Botany, Curiosity Club
62	'World Water Day' 22/3/2021	Dr. Sanjay Joshi	NSS, NCC, Yuva Jager

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63	'Flora and Fauna from Kashmir Valley' 25/3/2021	Dr. Shamim A. Bandy Dept. of Sericulture, Govt Degree College, Poonch	Department of Botany
64	'Entrepreneurship and Women Empowerment' 26/3/2021	Mrs. Sucheta Acharya Women Entrepreneur	NSS, NCC and Yuva Jager
65	'E- waste and its disposal' 30/3/2021	Ms. Rashmi Joshi	Department of IT
66	Workshop on Yoga 2/4/2021	Faculty from Shri Ambika Yoga Kutir, Thane; NGO with International Presence	Yoga Committee
67	Talk on 'Understanding Rehabilitation' 3/4/2021	Ms. Aishwarya Shinde	Department of Human Science
68	Workshop on 'Table laying and Vegetable Carving' 12/4/2021	Invited student faculty Ms. Alphy Hari Ms. Shravya Karkera Ms. Krishna Patel Mr. Akshay Sumariya	Department of Human Science
69	Remembrance of Jallianwalla Bagh Massacre 13/4/2021	Presentation by NCC Cadets	NCC (Army) Boys unit
70	Ill Effects of Plastics 13/4/2021	Presentation by NCC Cadets	NCC (Army) Boys unit
71	Space Scientist- Looking beyond infinity 18/4/2021	Dr. G. Madhavan Nair, Former Chairman, ISRO; Secretary, Department of Space, Govt.of India; Chairman, Space Commission; Chairman, Antrix Corporation	Joint activity with Rotary Club of Hiranandani Estate, Thane
72	Career Fair 22 & 24/5/2021	Capt. Chandrashekhar (Defence) Dr. Ajay Naik (Design & Architecture) Mr. Deepak Thakur (Medicine) Mr. Santosh Karle (Entrance Exams)	Junior College
73	Career Guidance Interactive Webinar 23/5/2021	Mr. Kishor Patil, Manager, SBI Mr. Pravin Kumar, Associate, SBI Mr. harshad Nevgi, Associate, SBI	Department of Human Science



## Courses and Workshops Organized by the College:

Eleven Courses and Workshops were organized during the year as mentioned below:

No.	Course/ Workshop	Date/s	Organized by
1	10 Days Career Guidance Workshop	9-18/7/2020	Department of Biotechnology and Microbiology
2	2 Days Workshop on Revised Syllabus for M.Sc. IT	18-19/8/2020	In collaboration with University of Mumbai and 5 Lead Colleges (IT)
3	5 Days Workshop on 'How Statistics can make your life easy'	21-26/10/2020	Anubandh: Past students Association
4	5 Days Workshop on 'Empowering Young Minds: Building a Research Trajectory	27-31/10/2020	Research Committee and Library
5	Workshop on Bloom's Taxonomy by Dr. Pallavi Chandwaskar, Sr. Faculty, Dr. VN BRIMS	4/1/2021	College
6	Address on Quality Procedures by Shri Mahesh Chilakwad, Former Director, Bureau of Indian standards	4/1/2021	College
7	Workshop on 'Implementation of Autonomy for Institutions' by Prin. (Dr.) Rajendra Shinde, Principal, St. Xavier's College (Autonomous), Mumbai for VPM GOI	6/2/2021	College
8	2 Days Skill Development Workshop on 'Sui- Dhaga, How to Paint with Needle and Thread'	6 & 7/3/2021	DLLE
9	2 weeks certificate course on Basics of R software	8-20/3/ 2021	Department of Statistics
10	Workshop on 'Table laying and Vegetable Carving'	12/4/2021	Department of Human Science
11	1 Week Certificate Course on 'Food Adulteration and Quality Management'	15/5/2021 onwards	Department of Biochemistry

## Student Festivals (and other activities):

Thirty one student festivals, competitions and other popular events were organized as follows:

No.	Fest / Activity	Date/s	Organized by/ Collaboration
1	Release of JBNB 2019-2020 Vol. IX	22/8/2020	Research Committee
2	Teachers Day Event	5/9/2020	NCC Unit
3	International Level Story Telling Competition	12-13/9/2020	Department of Hindi
4	Ek Bharat Shreshtha Bharat NIC	21-26/9/2020	NCC Directorate
5	Fit India Movement (One Month Activity)	3/9/2020-2/10/2020	NCC Unit
6	Wildlife Photography Competition	8-13/10/2020	Departments of Environment Science and Biodiversity, Wildlife Conservation and Management
7	Online Exhibition of Books on Dr. APJ Abdul Kalam	15/10/2020	Library Committee
8	Quiz on Dr. APJ Abdul Kalam	15/10/2020	Department of Library Science
9	Letter Writing Competition	16-24/10/2020	NSS Unit
10	Quiz on Women Entrepreneurs in India	25/10/2020	Students from Departments of Biotechnology and Microbiology
11	Student Induction Programme 1 Month SIP for First Year students	1-31/10/2020	College
12	National Education Day	11/11/2020	Library Committee
13	Model Fort Building Competition 'Kille Spardha'	13-16/11/2020	Cultural Activities Committee
14	Inter NCC Group Camp, Pune	17-27/11/2020	NCC
15	AIDS Awareness Activity	1/12/2020	NSS Unit
16	Poster Competition on AIDS Awareness	1/12/2020	Ministry of Health
17	Swachhata Pakhwada	1/12/2020-15/12/2020	NCC Unit
18	Rashtriya Pradushan Nivaran Divas; Environment Pollution Awareness Campaign	2/12/2020	NCC Unit
19	Online Intercollegiate Quiz Competition on National Consumer Day	24/12/2020	Cultural Activities Committee

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20	Online Quiz on Subhash Chandra Bose	23/1/2021	NSS Unit
21	Swachhata Abhiyan	24/1/2021	NCC, Nehru Yuva Kendra
22	Cyclothon	19 & 20/1/2021	NCC, Fit India Movement
23	Cycle Rally as part of Road Safety Month	14/2/2021	Thane Police-Traffic Branch
24	Elocution Competition	19/2/2021	NCC Unit
25	National Science Day and Release of JBNB Vol. X	28/2/2021	Research Committee, RSP Committee
26	International Women's Day Celebration and National Debate Competition	8/3/2021	WDC, Yuva Jager, Student Leadership Committee
27	Akanksha Annual Social, Theme: Incredible India	7,8 & 9/3/2021	Cultural Activities Committee
28	Mathlete	10/3/2021	Department of Mathematics
29	Stat-o-sphere Fest	15 & 16/3/2021	Department of Statistics
30	World Water Day Awareness Event	22/3/2021	NCC Unit
31	Palvi Fest	25/3/2021	Department of Botany

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

Our Department of Chemistry successfully conducted the **Two Days National Conference on Advances in Chemical Sciences and Sustainable Development ACSSD 2021** in collaboration with Department of Chemistry, The Institute of Science, Dr. Homi Bhabha State University, Mumbai on 9<sup>th</sup> and 10<sup>th</sup> April 2021 and 2 pre conference workshops thereof on 6<sup>th</sup> February and 6<sup>th</sup> March 2021 respectively. The event was conducted in online mode.

The conference for next academic year 2021-2022 was announced during the valedictory session, as National Conference on Microbial Biochemistry and Biotechnology: Microbiome-The Story **Untold**, to be jointly conducted by departments of Biochemistry, Microbiology, Biotechnology, Botany, Human Science and Inter- Disciplinary Science.

### 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 Academic Council of S.K.Somaiya College (Autonomous). Two teachers, namely Dr. S.D. Rathod and Mr. S.G. Bapat were nominated by Hon'ble Vice Chancellor as University Nominees on Boards of Studies in Zoology and Physics respectively, constituted under autonomy by Kelkar Education Trusts, V. G. Vaze College of Arts, Science and Commerce, Mumbai. **Six** teachers completed refresher courses/ MOOC and short term courses as mentioned below:

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

S.No	Name	Course	UGC-HRD	Centre Grading
1	Dr. Moses Kolet	Four Weeks MOOC on Cooperative Learning Pedagogy	Khalsa College of Education, Punjab; Dr. B.R. Ambedkar University, Delhi; Developed under UNESCO program	Distinction
2	Mr. S.G. Bapat	Short Term Course in Symmetry in Science and Engineering	UGC HRDC, University of Mumbai	NA
3	Dr. M. Saha	Short Term Course in 'Gender Sensitization'	UGC HRDC, University of Mumbai	NA
4	Dr. Urmila Kumavat	Short Term Course in 'Bioinformatics and Artificial Intelligence'	UGC HRDC, University of Mumbai	NA
5	Dr. Pralhad Wagh	Refresher Course ARPIT Course 'Chemistry for Higher Education'	AICTE, SWAYAM, MHRD	C Grading
6	Ms. Sayali Daptardar	Refresher Course in Biological Sciences	UGC HRDC, University of Mumbai	A Grading

Our Teaching and non-teaching staff voluntarily completed **52** curricular, co-curricular and extracurricular 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 Workshop	UGC-HRD Centre/ Organization
1	Dr. Moses Kolet	FDP	RUSA Maharashtra, Centre of Excellence in teacher Education,
2	Dr. (Mrs) M. Saha	Module on Curriculum Design and Pedagogy for Autonomous Colleges	TISS, Mumbai & Sangamner Nagarpalika Arts, Commerce and Science College
3	Dr. (Mrs) V. D. Manjramkar		
4	Dr. (Mrs) A. S. Goswami-Giri		
5	Mr. A. A. Kale		
6	Dr. Moses Kolet		
7	Dr. Moses Kolet	Course on Leadership and Followership (Awarded Badge)	Open University, UK
8	Dr. Moses Kolet	Training Course on 'Psychological Care of Patients with COVID-19	Govt. of India, Department of Personnel and Training, DIKSHA
9	Dr. Moses Kolet	Course on IPC for Novel Corona Virus (COVID-19)	World Health Organization (WHO)



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10	Dr. Moses Kolet	Severe Acute Respiratory Infection (SARI) Treatment Facility Design	World Health Organization (WHO)
11	Dr. Moses Kolet	Emerging Respiratory Viruses Including COVID-19: Methods for detection, prevention, Response and control	World Health Organization (WHO)
12	Dr. Moses Kolet	COVID 19: Operational planning guidelines and COVID-19 partners platform to support country preparedness and response	World Health Organization (WHO)
13	Dr. Moses Kolet	Training on Moodle Learning Management System	Vidyavardhini College of Engg. and Technology & IIT, Bombay
14	Dr. Moses Kolet	FDP on 'Online Teaching and Econtent'	IIDE, Lala Lajpatrai College, St. Xavier's College, Mumbai, D.Y. Patil College of Engineering and Technology
15	Dr. Moses Kolet	New Principal as a Visionary CEO	Maharashtra College of Arts, Science and Commerce and Bhavan's Hazarimal Somani College, Mumbai
16	Dr. M. Saha	Course on PYTHON	UDEMY
17	Dr. M. Saha	Microsoft Excel	UDEMY
18	Dr. M. Saha	Soft Skills	UDEMY
19	Dr. M. Saha	Positive Psychology	UDEMY
20	Dr. M. Saha	Lean Six Sigma	UDEMY
21	Dr. M. Saha	Outcome based Education & QA	UDEMY
22	Dr. Poonam Kurve	FDP on 'Insight into Marine Biodiversity and Taxonomy'	Satyabama Institute of Science and Technology, Chennai
23 24 25	Mrs Sangeeta Meshram Lt. Bipin Dhumale Ms. Divya Nair	FDP on Incorporating Universal Human Values in Education	All India Council for Technical Education (AICTE), New Delhi
26	Mrs Sangeeta Meshram	FDP on ICT in Teaching and Evaluation	UGC Paramarsh & MSP Mandal's Shri Shivaji College, Parbhani
27	Dr. Pralhad Wagh	FDP on 'Managing Online Classes and Co-creating MOOCs 2.0' (2 Weeks FDP)	T/L Centre Ramanujan College, University of Delhi, MHRD under Pandit Madan Mohan Malviya National Mission on Teachers and Teaching

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28	Dr. Pralhad Wagh	FDP on 'Advanced Concepts for Developing MOOCs' (2 Weeks FDP)	T/L Centre Ramanujan College, University of Delhi, MHRD under Pandit Madan Mohan Malviya National Mission on Teachers and Teaching
29	Dr. Pralhad Wagh	FDP on 'Quantitative Methods for Data Analysis' (2 Weeks FDP)	T/L Centre Ramanujan College, University of Delhi, MHRD under Pandit Madan Mohan Malviya National Mission on Teachers and Teaching
30	Dr. Sandeep S. Kahandal	FDP on 'Advanced Concepts for Developing MOOCs' (2 Weeks FDP)	T/L Centre Ramanujan College, University of Delhi, MHRD under Pandit Madan Mohan Malviya National Mission on Teachers and Teaching
31	Ms. Divya Nair	FDP on 'Data Science using R'	KK Wagh Institute of Engineering Education and Research, Nashik
32	Ms. Divya Nair	National FDP on Scilab	Rajashree Mahavidyalaya (Latur) & Spoken Tutorial
33	Ms. Divya Nair	National Conclave on 're-imagining University Education with a heart centered approach'	
34	Mr. Abhijeet Kale	FDP on 'Block Chain'	AICTE Training and Learning (ATAL), Amity University
35	Mr. Abhijeet Kale	FDP on 'Internet of Things (IoT)'	AICTE Training and Learning (ATAL), National Institute of Technology, Puducherry
36	Mr. Tejas Jadhav	FDP on 'Robotics'	AICTE Training and Learning (ATAL), K. Ramakrishnan College of Engineering
37	Mr. Tejas Jadhav	FDP on 'Augmented Reality (AR)/ Virtual Reality (VR)'	AICTE Training and Learning (ATAL), Narasaraopeta Engineering College
38	Dr. Rohini Mandhare	FDP on Digital Tools for 21st Century Teachers	Ministry of Education and Sri Guru Tegh Bahadur Khalsa College (University of Delhi)
39	Mr. B. R. Ghuge	FDP on 'Evolution from Offline to Online Teaching'	Satish Pradhan Dnyanasadhana College, University of Mumbai, YCMOU and Microsoft
40	Ms. Sumaiya Shaikh	National Level FDP on 'R software'	Auxillium Collage & Spoken Tutorial

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41	Ms. Sumaiya Shaikh	National Level FDP on 'Statistical Analysis of Quantitative Data using Advance Excel for Research Scholars	Rizvi College of Arts, Science and Commerce, Mumbai
42	Ms. Priyanka Chavan	PE and Community Coaching Programme for Women Khelo India.	
43	Ms. Chaya Panday	FDP on 'Evolution from Offline to Online Teaching'	Satish Pradhan Dnyanasadhana College, University of Mumbai, YCMOU and Microsoft
44	Dr (Mrs) Rohini Mandhare	3 Months Summer Research Programme	CSIR-NEIST, Jorhat
45 46 47 48 49 50 51 52	Mr. Chetan Moynak Ms. Pradnya Parab Ms. Shamal Kulkarni Ms. Prajakta Mayekar Ms. Shravani Kudapane Ms. Priyanka Koli Mr Ramchandra Shinde Mr. Amey Kadam	2 Days Training for Administrative staff 'Excelling with Excel for Smart Results'	Cosmopolitan's Valia College of Commerce and Arts

**Research Projects: Five** teachers carried out research projects as follows:

No	Name	Department	Sanctioning Authority	Amount (Rs)
1	Ms. Sayli Daptardar	Microbiology	Mangrove Foundation of India	40000/-
2	Dr. (Mrs) Poonam Kurve	Zoology	University of Mumbai	50000/-
3	Dr. (Mrs) A.S. Goswami-Giri	Chemistry	University of Mumbai	25000/-
4	Dr. S. Kahandal	Chemistry	University of Mumbai	25000/-
5	Dr. Abhay Morajkar	Zoology	University of Mumbai	25000/-
<b>Total Research Grants Received during the year</b>				<b>Rs. 525000/-</b>

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

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

No.	Name	Title of Research Paper	Journal/ Book	Year
1	Ms. Judith Talker (Joint Paper)	Evaluation of cytogenetic response in CMC patients with variant Philadelphia Translocation	Asia Pacific Journal of Clinical Oncology Scopus indexed	2021
2	Dr. Poonam Kurve	Effect of declining fish diversity on the fishermen community of Alimghar, Thane District (MS), India	Journal of Environmental Biology and Sciences	2020
3	Dr. Poonam Kurve	Nesting site studies of white-bellied sea eagle (Haliastur leucogaster Gmelin, 1788) along Konkan coast, Dist. Ratnagiri, MS, India	Journal of Ecology, Environment and Conservation	2021

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4	Ms. SS. Meshram, Dr. Anita Goswami –Giri etal	Dielectric behaviour of allyl Amine (AA) and 2 methoxy Ethanol(2-ME) at 9.85GhZ Microwave frequency	International Journal of Multidisciplinary Educational Research	2020
5	Ms. Manjrekar K. and Dr. Kumavat U. (Joint Paper)	COVID-19 imposed online learning experience from Under-Graduate student's perspective*	J-BNB	2021
6	Dr. Moses Kolet (Joint Paper)	Contribution of women's groups from Bhiwandi (Dist. Thane) in operating community kitchens and providing free meals to stranded migrant workforce during COVID-19 lockdown	J-BNB	2021
7	Dr. Moses Kolet (Joint Paper)	Studies on reinforcing urban biodiversity in the powerloom town of Bhiwandi, Dist. Thane, Maharashtra	Chronicle of Humanities & Cultural Studies	2020
8	Dr. Moses Kolet	Bursting the myth of the century: Do plastics really degrade?	People and Nature: A Livable and Sustainable Future (Book)	2020
9	Kahandal SS (Joint Paper with students)	Comparative Evaluation of drying methods on vitamin C and Protein content of Moringa oleifera leaves	J-BNB	2020
10	Kahandal, S.S.	Current advancements in COVID-19 and related human coronavirus disease therapeutic agents and vaccines	Innovative Research Trends in Science and Humanities (Book)	2021

### Research Papers published by students

No.	Name	Title of Research Paper Journal	Volume No	Year
1	Alphy Hari	Perception in Society on Rape Myths in Mumbai, India	J-BNB 10;	2021
2	Saira Bartanwala, Nikita Linar	COVID-19 imposed online learning experience from Under-Graduate student's perspective*	J-BNB 10;	2021



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### University of Mumbai Youth Festival 2021:

Entries for participation in **all the 10 events** were sent up for the University Youth Festival 2021. Our college won two prizes at District Level and one prize at the University Level Final Round.

Entries sent up for	10 events
Student Participants	10 students
Prizes bagged at District Level 1. Elocution Competition 2. Mimicry Competition	<b>Second Position</b> <b>Third Position</b>
Prize bagged at University Level Final Round 1. Elocution Competition	<b>First Position</b>
2. Literary Events	<b>Overall Championship was awarded to our College</b>
I congratulate the cultural Activities Committee	

### University of Mumbai Avishkar Research Convention 2021:

Research Projects sent up for the Convention	17 Projects
Student Participants at Zonal Level	37 participants
Guiding Teachers	10 teachers
Results are awaited at the time of going to press. I congratulate Dr. Jayashree Pawar and Dr. Kalpita Mulye for efforts taken in coordination of this activity	

Students successfully completing Research Scholar Programme:

**Twenty** students successfully completed the Research Scholar Programme:

No.	Name	Guided by	Project	Dept
1	Mr. Sumit Chauhan	Ms. Pooja Kanse	Assessing approaches of individual on water pollution awareness and prevention	Biochemistry
2 3	Ms. Tayyaba Ansari Ms. Trupti Londhe	Ms. Dharani Shetty Ms. Smita Sonawane	Effective Adsorption of fluoride ions on low cost bioadsorbent mixture of charcoal with Malus domestica peel and Cocos nucifera husk	Chemistry
4	Ms. Akshada Gawade	Dr. Rohini Mandhare	Tungsten oxide thin film for supercapacitor application	Chemistry
5 6	Ms. Tejaswini M. Salgaonkar Mr. Pritesh Kakade	Ms. Smita Sonawane Ms. Trupti Londhe	Estimation of Fluoride ions from different water samples of nearby water bodies using colorimeter	Chemistry

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7 8	Ms. Fiza Mohd. Sajid Bartanwala	Dr. Rohini Mandhare	A systematic review on applications of WO <sub>3</sub> nanoparticles for antibacterial activity	Chemistry
9 10	Ms. Alphy Hari Ms. Shravya Karkera	Ms. Sakina	Bhaigora Perception of Society on rape myths in Mumbai, India	Human Science
11 12	Ms. Saira Bartanwala Ms. Vipra Malandkar Ms. Nikita Linar	Ms. Kadambari Manjrekar Dr. Urmila Kumavat	COVID-19 imposed online learning experience from UG student's perspective	Library & Botany
13				
14 15 16	Ms Bhagyashree Kamble Mr. Durgesh Patil Ms. Shreya Pabrekar	Ms. Kadambari Manjrekar Dr. Urmila Kumavat	Use and awareness of social media tools by UG students	Library & Botany
17 18	Ms. Khushaboo Nishad Ms. Babita Yadav	Dr. Sudesh Rathod	Qualitative study of fisheries species diversity	Zoology
19 20	Ms. Nada Shaikh Ms. Neelam Soni	Dr. Urmila Kumavat Ms. Aishwarya Deshmukh	Carbon sequestration potential of tree species of VPM campus, Thane	Botany

### Research Paper Presentations by students:

**Fourteen** students presented research papers at various scientific meets as follows:

S.No.	Name	Title	Event	Guiding Teacher/s
1	Ms. Saira Bartanwala, Ms Vipra Malandkar Ms. Nikita Linar	COVID-19 imposed online learning experience from Under-Graduate student's perspective	8 <sup>th</sup> International Online Students Research conference (KESSC) Shroff College, Mumbai	Dr. Urmila Kumavat Mrs. Kadambari Manjrekar
2	Ms. Sanjeeda Islam Ms. Kavita Gowda	Studies on the Impact of COVID-19 Pandemic on Physical and Mental Health of Students	National Students Research Conference, Guru Nanak College, Mumbai	Dr. Moses Kolet
3	Ms. Archana Maurya, Mr. Dhiraj Jha	Biodiesel production from vegetable oil and fatty acids	National Conference on Advances in Chemical Sciences and Sustainable Development, BNBCS	Dr. Anita Goswami-Giri
4	Mr. Hritik Jadhav	An alternative dye: curcumin, its extraction and application	National Conference on Advances in Chemical Sciences and Sustainable Development, BNBCS	Dr. Anita Goswami-Giri
5	Ms. Khadeeja Masood Ms. Dharani Shetty	Effective Adsorption of fluoride ions on low cost bioadsorbent mixture of charcoal with Malus domestica peel and Cocos nucifera husk	National Conference on Advances in Chemical Sciences and Sustainable Development, BNBCS	Dr. Anita Goswami-Giri

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6	Ms. Tanvi Shirgaonkar Ms. Tejaswini M. Salgaonkar	Estimation of fluoride ions from different water samples of nearby water bodies using colorimeter	National Conference on Advances in Chemical Sciences and Sustainable Development, BNBCS	
7	Ms. Tanvi Shirgaonkar Ms. Tejaswini M. Salgaonkar	Allium cepa dye and its applications	National Conference on Advances in Chemical Sciences and Sustainable Development, BNBCS	

### Internships by Students

No.	Name	Internship	Organization
1	Ms. Alphy Hari (TYBSc Human Science)	Internship in Clinical Psychology	Fortis Mental Hospital
2	Ms. Anushree Keni (TYBSC Microbiology)	Digital Marketing and Fundraising	Hamari Pahchan (NGO)

### 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 **84 participating students have won 48 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	Mr. Harsh Karotiya	Intercollegiate Mono acting Competition	Sujahi Open Mic 15 <sup>th</sup> August 2020	Second Prize
2	Mr. Harsh Karotiya	Intercollegiate Karate Competition	Versatile Youth Shotokan Karate Foundation	Third Prize
3	Mr. Mahesh Chavan (SYJC)	International Story Telling Competition	BNBCS 12 & 13 September 2020	Consolation prize
4	Ms. Amruta Thombare (SYJC)	Hindi Intercollegiate Essay Writing Competition	Smt. M/M. Kundnani College of Commerce and Economics, HSNC University	Consolation Prize
5	Ms. Mitali More (SYBSc Biochemistry)	Art for Change Essay Writing Competition	Sister's Living Works & Cosmopolitan Valia College of Arts and Commerce 26 <sup>th</sup> September 2020	Third Prize
6	Omkar Vishwakarma (FYBSc Biotechnology)	14 <sup>th</sup> Maharashtra State Level Open Championship (Kumite)	BuddhistKung-Fu Martial Arts; World United Martial Arts Federation 27 <sup>th</sup> November 2020	Gold Medal

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7	Omkar Vishwakarma (FYBSc Biotechnology)	14 <sup>th</sup> Maharashtra State Level Open Championship (Open Fight)	BuddhistKung-Fu Martial Arts; World United Martial Arts Federation 27 <sup>th</sup> November 2020	Silver Medal
8	Omkar Vishwakarma (FYBSc Biotechnology)	14 <sup>th</sup> Maharashtra State Level Open Championship (Wing-Chun)	BuddhistKung-Fu Martial Arts; World United Martial Arts Federation 27 <sup>th</sup> November 2020	Silver Medal
9	Mr. Atul Singh	Confederation of Indian Industry (CII) All India Debate Competition	Confederation of Indian Industry (CII) 16 <sup>th</sup> December 2020	Runners Up at All India Level Second Prize (Category Hindi)
10	Ms. Rutuja Adhav (SYBSc)			
11	Ms. Kaveri Shinde (SYBSc Biotechnology)	Govt. of Maharashtra Yuva Mahotsav Elocution Competition	Thane District Competitions 27 <sup>th</sup> December 2020	First Prize
12	Omkar Vishwakarma (FYBSc Biotechnology)	1 <sup>st</sup> Kungfu Pro Sanda League Selection 2020	Kungfu Sports Association of Mumbai 27 <sup>th</sup> December 2020	Runner Up
13	Ms. Tanvi Shirgaonkar	Lumos Artem Intercollegiate Festival Rasayan 2021	Department of Chemistry, K. J. Somaiya College of Science and Commerce (Autonomous)	Third Prize
14-33	Team of 20 cadets	Drill Competition in CATC of 1 Maharashtra BN NCC	Jnanadweep, VPM's College Campus, Thane 8 <sup>th</sup> -10 <sup>th</sup> February 2021	First Prize
34-43	Team of 10 cadets	Drill Competition in CATC of 1 Maharashtra BN NCC	Kirti College Campus, Mumbai 11 <sup>th</sup> -15 <sup>th</sup> February 2021	Third Prize
44	JUO Pratik Pawar	Weapon Training Elocution Competition Overall Championship		Third Prize Third Position Third Position
45	Ms. Zubiya Khan (TYBSc Biotechnology)	Intercollegiate Bio Poetry Competition	SIWS College, Wadala, Mumbai 21 <sup>st</sup> February 2021	Third Prize
46	Ms. Sanjeeda Islam (FYBSc Biotechnology)	Intercollegiate Poster Presentation Competition	Guru Nanak College, Mumbai 24 <sup>th</sup> February 2021	Third Prize
47	Mr. Sahil Ghadge			Consolation Prize
48	Ms. Shreya Sandeep Nadkarni	Intercollegiate Essay Writing Competition	Bhavan's College, Mumbai 25 <sup>th</sup> February 2021	First Prize



## SANYUJA 2020-21

49	Ms. Tanvi Shirgaonkar TYBSc Chemistry	Intercollegiate Research Paper Presentation Competition	Department of Chemistry, R. Ruia College 27 <sup>th</sup> February 2021	Third Prize
50	Ms. Shambhavi Joshi (TYBSc Microbiology)	National Level Intercollegiate Debate Competition	BNBCS 8 <sup>th</sup> March 2021	First Prize
51	Ms. Karishma Parmar			
52	Mr. Vinayak Mokashi	—”—	BNBCS 8 <sup>th</sup> March 2021	Second Prize
53	Mr. Ryanston Rodrigues			
54	Ms. Manisha Rathod	—”—	BNBCS 8 <sup>th</sup> March 2021	Second Prize Category Hindi
55	Mr. Jayesh Lohote			
56	Mr. Saurabh Singh	—”—	BNBCS 8 <sup>th</sup> March 2021	Third Prize Category Hindi
57	Mr. Suraj Juyal			
58	Ms. Swapna Deopurkar	—”—	BNBCS 8 <sup>th</sup> March 2021	First Prize Category Marathi
59	Ms. Shatakshi Jadhav			
60	Mr. Saurabh Singh	—”—	—”—	Best Speaker
61	Mr. Vinayak Mokashi	—”—	—”—	Best Video
62	Mr. Ryanston Rodrigues			
63	Ms. Swapna Deopurkar	—”—	—”—	Best Video
64	Ms. Shatakshi Jadhav			
65	Mr. Sahil Ghadge	Aarohan 2K21 Intercollegiate Poster Making Competition	VPM's R. Z. Shah College, Mulund, Mumbai 8 <sup>th</sup> March 2021	First Prize
66	Ms. Manali Kamble	Intercollegiate Singing Competition		Second Prize
67	Mr. Pratik Pawar	Intercollegiate State level Essay Competiion	Anjuman Islam Janjira Degree College, Murud Janjira, Dist Raigad 8 <sup>th</sup> March 2021	First Prize
68	Ms. Pranoti Joshi (FYBSc Biochemistry)	Intercollegiate State level Essay Competiion	Anjuman Islam Janjira Degree College, Murud 8 <sup>th</sup> March 2021	Second Prize
69	Ms. Shreya Nadkarni (FYBSc PMS)	PRAVAH Intercollegiate Festival Power point Presentation Competition	B.K. Birla College (Autonomous) Kalyan 9 <sup>th</sup> March 2021	Consolation Prize
70	Ms. Shambhavi Joshi (TYBSc Microbiology)	National Level Micri-bio Olympiad	Micro-bio Olympiad Foundation 10 <sup>th</sup> March 2021	Winner
71	Mr. Sahil Ghadge	National Level Poster Making Competition	12 <sup>th</sup> April 2021	Third Prize

## SANYUJA 2020-21

72	Mr. Siddhant Pradhan (SYBSc Human Science)	Intercollegiate Competition  Bursting Myths	NSS & Dept. of Psychology  Royal College, Mumbai 17 <sup>th</sup> March 2021	First Prize
73	Mr. Siddhant A. Pradhan (SYBSc Human Science)	Intercollegiate Essay  Competition	KLE Society's Science & Commerce College, Kalamboli, Navi Mumbai 7 <sup>th</sup> October 2020	Third prize
74	Ms. Shambhavi Joshi (TYBSc Microbiology)	University of Mumbai Youth Festival District Level Round Elocution Competition	University of Mumbai 23 <sup>rd</sup> March 2021	Second Prize
75	Mr. Abhishek Jadhav (FYBSc IT)	University of Mumbai Youth Festival District Level Round Mimicry Competition	University of Mumbai 24 <sup>th</sup> March 2021	Third Prize
76	Ms. Vibhuti Patil	Intercollegiate Festival Uttung 3020-21 Mandala Art Competition	NSS Unit, R.A. Poddar College, Mumbai 27 <sup>th</sup> March 2021	Third Prize
78	Ms. Intesaar Limbodiwala (TYBSc Statistics)	National Level Slogan Competition	KC Law College, Mumbai 30 <sup>th</sup> March 2021	Second Prize
79	Ms. Shambhavi Joshi (TYBSc Microbiology)	University of Mumbai Youth Festival University Level Finals Elocution Competition	University of Mumbai 31 <sup>st</sup> March 2021	First Prize
80	Ms. Kavita Gowda	Students National Conference Research Paper Presentation Competition	Guru Nanak College, Mumbai 5 <sup>th</sup> April 2021	First Prize
81	Ms. Sanjeda Islam (FYBSc Biotechnology)			
82	Ms. Saira Mohd. Yusuf Bartanwala	Vivekananda Institution Chemistry Excellence (VICE) Test	Vivekanandha College of Arts and Science for Women (Autonomous), Namakkal	Vice Elite Gold Medal Award of Excellence
83	Ms. Nikita Baban Linar (TYBSc Botany)	Intercollegiate Quiz Competition on National Consumer Day	BNBCS	Third Prize
84	Ms. Vaidehi Amberkar	Intercollegiate Poster Making Competition	VPM's Maharshi Parshuram College of Engineering, Velneswar 24 <sup>th</sup> April 2021	First prize

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

<b>S.No</b>	<b>Name</b>	<b>Course/ Training</b>	<b>Workshop Organization</b>
1	Ms. Anushree Keni (TYBSc Microbiology)	Prolonged Recovery from COVID-19: Diagnostic and Therapeutic Challenges	Harvard Medical School
		COVID-19 Vaccine Development and Novel Therapeutics	Harvard Medical School
		Python Essential Programme	Lets Upgrade
		The Science of Stem Cells	Coursera- American Museum of Natural History
		Drug Discovery	Coursera- UC San Diego
		Studying Natural Science Bilingually	The Open University UK
		Visibility for Vaccines (ViVa) using data in the immunization supply chain	UNICEF-Agora
		Bacterial Genomes: From DNA to Protein Function Using Bioinformatics	Future Learn- Wellcome Genome Camous Advanced Courses and Scientific Conferences
		Introduction to COVID-19: methods for detection, prevention, response and control	World Health Organization
		Standard Precautions: Waste Management	World Health Organization
		Standard Precautions: Hand Hygiene	World Health Organization
		Mammalian Cell culture	Merck High End Skill Development Lab
		Recombinant DNA Technology	Merck High End Skill Development Lab
Nucleic Acid Handling	Merck High End Skill Development Lab		
2	Ms. Alphy Hari (TYBSc Human Science)	Introduction to Psychology	Coursera- Yale University
3	Ms. Sakshi Pisal (TYBSc Botany)	5 Days Workshop on 'Yoga'	B. K. Birla College, Kalyan

## SANYUJA 2020-21

		National Level Safety and Self Defence Workshop for Women	Maharashtra College, Mumbai
		Combined Annual Training Camp	NCC, Mumbai
4	Ms. Saira Bartanwala (TYBSc Botany)	3 Days National Workshop on 'Career Opportunities and Personality Development for Students of Life Sciences'	Dharampeth M.P. Deo Memorial Science College, Nagpur
5	Ms. Nikita Baban Linar (TYBSc Botany)	Social Distancing- Digital Learning	Thakur College of Science and Commerce, Mumbai
6	Ms. Anjali Kachare (SYJC)	Empowering Young minds: Building a Research Trajectory	Research Committee and Library, B.N. Bandodkar College of Science (Autonomous)
7	Ms. Abhimukhi S. Jagtap	30 Days Course on 'Employability'	Pratham Infotech Foundation
8	Ms. Trirashmi S. Jagtap	30 Days Course on 'Employability'	Pratham Infotech Foundation
9	Ms. Nikita Baban Linar (TYBSc Botany)	Digital Sakshar for Employability (2021) with 'A' Grading	Pratham Infotech Foundation
10	Mr. Pranav Gohil (FYBSc, PCM)	Training course on Geoinformatics for Disaster Management	Indian Space Research Organization (ISRO)
11	NCC Officer and 52 cadets	World Youth Conference on Kindness	World Youth Conference on Kindness
12	NCC Officer and 3 cadets	NCC National Integration Camp	NCC HQ
13	<b>261 students</b>	Empowering Young minds: Building a Research Trajectory	Research Committee and Library, B.N. Bandodkar College of Science (Autonomous)

New Links Established:

**One Hundred and Thirty Eight** new links were established during the year.

### Alumni Diary:

- Alumni met Dr. Vijay Bedekar on 7/12/2020 with plans for better interaction and more activities.
- A three days educational tour for Alumni was arranged at Velneshwar wherein Dr. Vijay Bedekar accompanied the group along with Shri Uttam Joshi, C.A. Shri R.R. Rasal, Shri Santosh Mirlekar and Shri Suresh and explained the historical, geographic, literary significance of the area. The alumni group visited various departments and facilities of our VPM's Maharshi Parshuram College of Engineering and needless to say....were very impressed at the infrastructure and all facilities provided by VPM, Thane.



- Anubandh Past Students association arranged Dr. V.N. Bedekar Memorial Lecture by our environmentalist alumnus Ms. Clara Correia on Wetlands: Our Lifeline.
- Dr. Mahesh Bedekar won Gold medal in London Marathon
- Dr. Vijay Joshi, Chief Consultant, RUSA, conducted a webinar on the new 'National Education Policy NEP 2020' through Anubandh Past students Association.
- Mr. Shripad Puranik was selected on the official translation team of Government of Maharashtra.
- Our alumni Bhagyashree Surve won the Mrs IndiaUK 2020 title.
- Ms. Sheetal Chabukswar conducted a 5 Days Workshop on 'How Statistics can make your life easy' for our students as well as students from other colleges.
- Dr. Ushavati Shetty contributed towards conduct of online workshops. She was also appointed as Principal of Navodaya English High School and Junior College, Thane during this year.
- Dr Smita Ranade, Principal, Modern College, Pune was granted Balbharati Research project, was designated as Research Coordinator by Savitribai Phule Pune University; published 2 books and 4 research papers.
- Mr. Aditya Chhatre, our alumnus pursuing his Ph.D. in Max Planck Institute, Germany conducted guidance sessions for current students on techniques to crack entrance examinations. Similar sessions were conducted by our alumni Ms. Sae J Joshi, Ms. Himadri Kale, Ms. Manali Neman and Ms. Komal Gawas from Departments of Biotechnology and Microbiology
- Col. Vishal Arora, our distinguished alumni visited the college, addressed the members of staff and motivated NCC cadets on 21/12/2020.
- Maj. Abhay Kadam got his promotion in the Indian Army.
- Officer Cadet Kunal Singhvi our NCC alumnus will be completing his officer training and passing out as a commissioned officer in the army from Officers Training Academy, Chennai in June 2021. Two Ex- cadets have completed their advanced training and are now serving in the Indian Army and Navy respectively.
- Mr. Kalpesh Chirme (NCC alumni) won 'Adarsh Karate Prashikshak Puraskar 2021'.
- Two recent alumni were absorbed by NABARD, a subsidiary of Reserve Bank of India and Food Corporation of India respectively while one student has been selected in Maharashtra Police
- Our valued alumni are taken up on all our Boards of Studies constituted under autonomy.

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:**

I/C Principal Venkatraman Sir retired on 30th September 2020 after 38 years of service.

Shri S.D.More from Department of Chemistry retired in December 2020 after 41 years of service.

### **Obituary:**

It pains the heart to announce:

Honourable associates of our management renowned architect Shri Vasant Pansare and Shri M.Y. Gokhale left us for their heavenly abodes during the year.

Former Principal Dr. G.V. Kulkarni left for heavenly abode on 10/3/2021.

Our security staff Shri Murlidhar G. Kushavah left us for his heavenly abode on 25/5/2021.

Former retired teaching staff of Department of Chemistry Dr P.G. Bamane left for heavenly abode on 9/4/2021.

Former staff of Chemistry Department Shri Pandhare left for heavenly abode on 21/12/2020.

# Conference Report

## National Online Conference on Advances in Chemical Sciences and Sustainable Development (ACSSD-2021)

9<sup>th</sup> and 10<sup>th</sup> April 2021

**First preparatory workshop was held on 6<sup>th</sup> February 2021** and inaugurated virtually at the hand of Prof (Dr.) Shivram S. Garje, Associate Dean, Science and Technology, University of Mumbai, Mumbai. The workshop was held online using Google meet platform and was streamed live on you tube platform. The first speaker of workshop Prof (Dr.) Shivram S. Garje, focused the Materials for Environmental Remediation and Sustainable Development. The second speaker, Dr. Anand Malankar, Research and Development, Head, IFFCO-Personal Care Division, Dubai, delivered talk on Synthesis of compounds having fragrance and flavor with its application technology. In the last session of workshop, papers were presented by young budding scientists on pharmaceutical and colour chemistry in relation to sustainable development.

### **Second preparatory workshop was held on 6<sup>th</sup> March 2021**

The workshop was graced by two eminent speakers. Dr. Hemantkumar Chandak, Associate professor, Department of Chemistry, G. S. Science, Arts and Commerce College, Khamgoan, Buldhana. Sir delivered a very interesting lecture on his research contribution on Green synthesis of heterocyclic compounds using MCR and catalysis. The second speaker of the day Prof. Dr. S. T. Mhaske, Head, Department of Polymer and Surface Engineering, Institute of Chemical Technology, Mumbai. Sir has greatly inspired on sustainability of flexible polymer packaging. Responses by participants were excellent for both the preparatory workshops.

The main two days National conference was then held on 9<sup>th</sup> and 10<sup>th</sup> April 2021 wherein eminent scientists from the thrust area were invited.

Our Guest Speakers were Dr. Anthony Crasto, Glenmark Pharmaceuticals, Navi Mumbai, Prof. Sanjio Zade, IISER, Kolkata, Prof. Vivek Polshettiwar, TIFR, Mumbai, Dr. Amit Zodge, Spice King Holland (SKH), Netherlands, Dr. Muralidhar Ingale, Reynish Pharmachem, Gujarat, Dr. Rajendra Shirsat, Goa University, Goa, Prof. A. D. Sawant, University of Mumbai.

**Dr. D. R. Ambavadekar**  
HOD, Dept. of Chemistry

# College Dynamism: Departmental & Committee Reports







## Department of Biochemistry

The academic year 2020-2021, began Amidst the lockdown due to COVID-19. In order to equip students with the necessary soft skills required in this competitive world, The Department of Biochemistry has organized a webinar series titled 'ACQUIRE THE REQUIRED'.

The series aims at student development and growth in various sectors like grooming, emotional wellbeing, learning new skills like photography, kitchen gardening etc.

Four guest speaker sessions are completed till now under the following headings: -

Session I - Moving Towards a Corporate Career: 28<sup>th</sup> May 2020

Session II - Understanding and Dealing with Emotions: 30<sup>th</sup> May 2020

Session III -Through The Lens: 7<sup>th</sup> June 2020

Session IV - Draw to De-Stress: 13<sup>th</sup> June 2020



Bridge course was conducted for the S.Y.B.Sc and T.Y.B.Sc students in order to revise the basic concepts of Biochemistry, attain clarity as well as bridge the gap between previous and current year syllabus. In the first week orientation lectures were conducted by the HOD and the staff members in the regular time slot.

Three Mentoring sessions for students on 2<sup>nd</sup> June 2020, 5.30PM, 29<sup>th</sup> August 2020, 11.00 AM and 31<sup>st</sup> August 2020, 11.30AM. Review of the activities done by students during lockdown period was taken. Career guidance was done and TYBSc students were briefed about various entrance exams that could be conducted post lockdown. Students were encouraged to participate in various workshops, seminars, certificate courses; short term courses etc. The importance of making correct use of the lockdown period was highlighted.

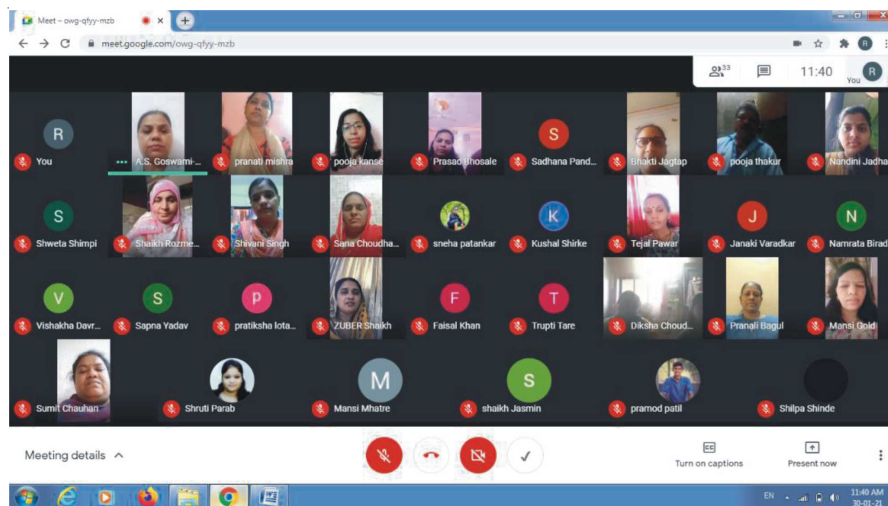
## SANYUJA 2020-21

Timely updates about exams, revision lectures, admission counseling, reopening of college and other notices were given to students.

“Jeevika” – the signature club of Biochemistry Department was inaugurated on 1st August 2020 by organizing a lecture on Corona Outbreak: Chemistry, Immunity and approaches by Dr. Anita S. Goswami-Giri briefed the students about corona virus chemistry and spreading in India with higher rate due to people are in close proximity to one another for long periods of time. She shared some tips with students to overcome the stress and keep mental health strong.

First Journal club activity for S.Y.B.Sc and T.Y.B.Sc Biochemistry students on 12th September 2020 at 11.00 am. It was conducted online using Google Meet platform. Students presented published Research papers and gained an idea of steps involved in research work, scientific writing, research paper drafting. This activity helped to inculcate research culture amongst students and to undertake research activities. Students were explained the use of various search engines like Google Scholar, PubMed, NDLI etc to get access to various research articles and papers.

Online Parents –Teachers meeting was held on **30/01/2021**.



In the academic year 2020-2021, students and teachers completed various certificate courses, Training programs, Webinars etc Teachers also encouraged students to attend various workshop, webinars and competitions. Some of the students participated in various webinar and completed short but important courses on Swayam app and Coursera app. Students have completed many courses like Medical Biotechnology, Immunology and Immunotechnology, Drug discovery etc.

**Dr. Anita Goswami-Giri**  
Coordinator, Dept. of Biochemistry

## **Department of Biotechnology and Microbiology Academic Year 2020-21**

Academic year 2020-21 is witnessing unprecedented challenges for the Higher Education Institutions all over the World, with virtual learning acquiring prominence due to the Covid-19 pandemic. Apart from online teaching, the online platform was used for organizing various signature activities for the holistic development of students by Department of Biotechnology and Microbiology.

The Department organized Ten-day webinar series on ‘career Guidance’ during 9<sup>th</sup> to 18<sup>th</sup> July 2020. Twelve eminent speakers who have excelled in their respective fields were the guests of honour. It gives a proud feeling to mention that six of these were department alumni. The sessions were kept open for students as well as parents.

Date	Speaker	Brief summary of speech
9/7/20	Dr. Jayashree Pawar, Assist. Prof, Department of Biotechnology and Microbiology, VPM's B. N. Bandodkar College of Science	<ul style="list-style-type: none"> <li>• career opportunities for biological sciences students</li> <li>• preparation for competitive exams like JGEEBILS, JAM, JNU, JNCASR, NIV, CFTRI etc</li> <li>• entrepreneurship as a promising career opportunity</li> </ul>
10/7/20	Ms. Chinmayee Shukla, M.Sc., M. S. University of Baroda, currently pursuing Ph.D. at IIT, Gandhinagar	<ul style="list-style-type: none"> <li>• current research work on quadruplex nucleic acids</li> <li>• different competitive exams for UG students, tips to study for these exams</li> <li>• Research opportunities</li> </ul>
11/7/20	Mr. Yash Rane, recipient of Presidential fellowship, USA, currently working as manager- corporate strategy, Amgen Biotech	<ul style="list-style-type: none"> <li>• ‘How to decide one’s career path’ considering ‘love and passion for work’, ‘strengths’ and ‘market needs’</li> <li>• self-evaluation and exposure to different co-curricular and extra-curricular activities in building career</li> <li>• job opportunities in Indian pharmaceutical companies</li> </ul>
11/7/20	Ms. Gauri Page, Assistant R&D manager, Hi Media Laboratories Pvt. Ltd.	<ul style="list-style-type: none"> <li>• importance of punctuality, sincerity and smart-work, internships and training programs from Institutes of International repute in career</li> <li>• self-learning and practical application of concepts</li> </ul>

## SANYUJA 2020-21

12/7/20	Dr. Shabari Sarang, Principal Scientist, Reliance Life Sciences	<ul style="list-style-type: none"> <li>• importance of exposure to research paper presentation, research project designing, budgeting and presentation</li> <li>• tips to overcome stage fear and present confidently</li> <li>• current experience in COVID-19 testing: safety precautions, real time PCR and antibody detection methods, manual and semi- automated work flows</li> </ul>
13/7/20	Mr. Yash Deshpande, M.Sc., Banaras Hindu University, currently pursuing Ph. D. from IIT Mumbai	<ul style="list-style-type: none"> <li>• preparation for different competitive exams</li> <li>• Importance of referring to fundamental reference books to clear concepts, understanding the framing of questions in such exams,</li> <li>• studying physics and maths</li> <li>• Tips to overcome the 'fear factor' and time management while appearing for competitive exams better</li> <li>• Importance of participating in Departmental activities</li> </ul>
14/7/20	Ms. Yogita Narvekar, founder Manager, TechnoCraft, an ISO 9001-2015 Certified company involved in manufacture of scientific instruments	<ul style="list-style-type: none"> <li>• journey as an entrepreneur, from finalizing place for setting up business, planning with respect to finances, fulfilling various government formalities, market survey and acquiring skilled labour to maintain the quality of brand</li> </ul>
14/7/20	Mr. Bidhan Biswas, Managing Director at Brandmaker 333 Media Solutions LLP, Mumbai.	<ul style="list-style-type: none"> <li>• story of starting his advertising agency in a coffee shop with no infrastructure, to a stage today, when he is well established in his business with office in Andheri, Mumbai</li> <li>• importance of doing 'market research' and learning the 'know-hows' in setting up a business</li> </ul>
15/7/20	Mr. Prathamesh Choughule, Data Management, Senior Analyst, Accenture Solutions Pvt. Ltd.,	<ul style="list-style-type: none"> <li>• work experience at Prabhat dairy, Navi Mumbai; Cognizant Technology Solutions and Accenture Solutions Pvt. Ltd.</li> <li>• 'eagerness to learn' and 'finding different ways of doing a challenging task rather than working monotonously' as door to success</li> <li>• opportunities in clinical research and data analysis</li> </ul>



15/7/20	Ms. Mansi Datar, educator at Avalon Heights International School, recently admitted to master's program at Johns Hopkins University, USA	<ul style="list-style-type: none"> <li>• medical coding as a promising job opportunity</li> <li>• Guidance on getting into foreign Universities</li> </ul>
16/7/20	Mr. Nikhil Pahelkar, M.Sc., IIT Mumbai, currently pursuing Ph.D. from IISc, Bangalore	<ul style="list-style-type: none"> <li>• need to clear different competitive exams and join Institutions of International repute</li> <li>• list of important topics and useful links for study</li> <li>• different fields other than research that Microbiology and Biotechnology students can opt for</li> <li>• his research work on 'Studies on plasmepsins of <i>Plasmodium falciparum</i> to develop anti-malarial chemotherapeutic agent' at IIT Mumbai</li> </ul>
18/12/20	Dr. Vinay Murtadak, application specialist, advanced therapies division, Sartorius Stedim Biotech, Germany	<ul style="list-style-type: none"> <li>• significance of participation in co-curricular activities</li> <li>• his research work during master's course from National Institute of Virology, Pune, on 'Avian influenza H9N2 virus from India for potential use as a candidate vaccine'</li> <li>• his doctoral research work from Friedrich Alexander University, Erlangen-Nuremberg, Germany, on a very interesting topic '<i>in-vitro</i> analysis of the impact of kaposi's sarcoma-associated Herpesvirus on experimentally induced necroptosis'; his current work profile</li> </ul>

### **Competitive Examination Guidance And Question Paper Solving Sessions**

Department of Biotechnology and Microbiology has been instrumental in providing guidance to students regarding preparation for competitive exams by renowned research Institutions. The department had organized **online question paper solving sessions by department alumni who have cleared these examinations**. Forty-five students of Biotechnology and Microbiology have registered for these sessions.

The online sessions were organized by **Mr. Aditya Chatre**, M.Sc. (Res), TIFR, Mumbai, pursuing Ph. D. at the Max Planck Research School for Cell, Developmental and Systems Biology, Germany, (9<sup>th</sup> August 2020) (2010 TIFR question paper); **Mr. Nikhil Pahelkar**, MSc Biotechnology, IIT Mumbai, pursuing Ph. D. at IISc, Bangalore (select IIT-JAM questions); **Ms. Chinmayee Shukla**, MSc, M. S. University, Baroda,

currently pursuing Ph. D. at IIT Gandhinagar, (27<sup>th</sup> February 2021) (select GAT-B questions).

Another interactive session on competitive exam preparation was organized on 12<sup>th</sup> March 2021 by four meritorious alumni students. The session was conducted by **Ms. Sae Joshi, Ms. Himadri Kale, Ms. Manali Neman and Ms. Komal Gavas** who graduated in Microbiology in 2019-20. Komal, Himadri and Manali are pursuing their masters in Marine Biotechnology from Goa University, whereas Sae is now a student of Masters in Medical Biotechnology in M. S. University, Baroda after clearing their entrance examination. All of them cleared Gat-B in 2020 with very good All India ranks.

Session on **writing “Statement of Purpose (SOP)”** was organized **on 22<sup>nd</sup> March 2021 at 6.30pm** on google meet platform. It was organized specially to guide those students who had cleared TIFR, IIT-JAM and GATE-BT exams however the session was open to all the students who were intrigued. The session was conducted by our alumnus, Mr. Aditya Chhatre, Ph.D. Scholar, Max Planck institute of Molecular Cell Biology and Genetics, Dresden Germany. Mr. Chhatre guided the students on correct submission of the TIFR application form. He Also motivated the students to discover their niche in field of study and try to accomplish certain value addition activities. He also urged the students to focus on their communication skills so that they would be capable of organizing their thoughts and expressing it- an important skill of a researcher. Mr. Chhatre also discussed the several intricacies of SOP writing and explained the same to students using examples. He also expressed the willingness to further help the students who have cleared competitive exams with their SOP writing.

### **‘NavUdyojika’**

#### **A unique Navratri celebration and A tribute to Indian Women Entrepreneurs**

To celebrate Navaratri in a unique manner by paying tribute to Indian Women Entrepreneurs, Department of Biotechnology and Microbiology, organized **“Nav-Udyojika” campaign**, which aimed at **honouring Indian women entrepreneurs**. Nine avatars of Goddess Durga, also called Navdurga, are worshiped on each day of Navratri, and hence it was thought to share the success stories of nine female udyojak i.e., entrepreneurs on this propitious occasion.

Ms. Romita Ghosh, Ms..Vanshika Choudhary, Ms..Shriya Naheta, Ms. Mehal Kejriwal, Ms. Geetha Majunath, Ms..Sarah D’Souza, Dr. Archana Krishnan, Ms. Anuradha Acharya, Ardra ChandraMouli and Gayatri Thankachi were the nine women entrepreneurs selected that are contributing in the field of biology and have made a significant dent in the startup ecosystem and each of them is ‘an inspiration’ for the youth.

Eight Students volunteers presented valuable information with respect to the enterprise setup by these businesswomen and how they overcame various short comings and achieved their dream. Each one of them prepared a presentation using power-point and presented one contributor. The video recordings were made after multiple rehearsal sessions. One video comprising three presentations per day were screened on google

drive link on 22<sup>nd</sup>, 23<sup>rd</sup> and 24<sup>th</sup> October 2020. The activity involved an online quiz competition in the format of google forms, the link for which was kept active on 25<sup>th</sup> Oct. 2020. Total 120 students participated and were awarded a certificate for their successful participation.

### Late Dr. V. N. Bedekar Online Colloquium Lecture

Department of Biotechnology and Microbiology had organized an **Online Colloquium Lecture** in memory of Late Dr. V. N. Bedekar, Founder of Vidya Prasarak Mandal, Thane on 24th November 2020. The resource person for the lecture was **Professor Pattanathu Rahman**, Executive Director, TARA Biologics Limited and TeeGene Biotech Limited, London, UK who delivered a lecture on topic '**Role of Biotechnology in Circular Economy**'. Professor Rahman initiated his lecture giving an overview about his journey in the field followed by describing significance of circular economy over traditional economy. He enlightened on the process of converting 'Waste to Wealth' providing varied examples of food waste recycling, plastic recycling, leather dust etc. Dialogue was also on production of biosurfactants and its varied application in wool industry, cosmetic industry and many more.

### Guidance Session For Microbiolympiad 2021

Microbiolympiad is one of the prestigious national level competitions held every year for the students of Life sciences organized by Department of Microbiology, RCP ACS College, Shirpur. Online guidance session was conducted by Ms. Sayali Daptardar, Assistant Professor of the Department, on 1<sup>st</sup> March 2021. **The students were explained the strategy to prepare for MCQ type examination. Also, a link for digital library created by the department was shared with all the students for easy and quick availability of all the reference books required for the preparation of the exam.** Students' doubts were solved and they were encouraged to give their best to get into next round of the contest.

### Invited lecture

The Department had organized an Invited talk on 9<sup>th</sup> March 2021 by Ms. Elizabeth Talker and Ms. Judith Talker, both alumni of Department, on their recently published research work. The talk was organized on 'Microsoft Teams' online platform.

Ms. Elizabeth Talker, Scientific Officer, Cancer Cytogenetics Dept. ACTREC, TMC and Ms. Judith Talker, Assistant Professor, Department of Biotechnology, B. N. Bandodkar College of Science, Thane, presented and discussed their work on "**Evaluation of Cytogenetic Response in CML Patients with Variant Philadelphia Translocation**". The research work is recently published in '**Asia Pacific Journal of Clinical Oncology**', a research journal of high repute (impact factor 2.012). The research was performed at Dept. of Cancer Cytogenetics, ACTREC, TMC, Navi Mumbai, as a part of their M. Sc. project work.

Ms. Judith Talker initiated her talk with a brief introduction to Cytogenetics and the concept of chromosomal translocation. She explained to the students how a variant translocation can occur involving more than two chromosomes can affect the responsiveness

to the treatment; followed by description of the methods they adapted for the research work. Ms. Elizabeth, discussed the results of the study with the students and completed the talk by summarizing the conclusions of research work which emphasized on necessity to cytogenetically characterize these patients to confirm prognosis and disease progression.

**Dr. Jayashree Pawar**  
Coordinator, Biotechnology

**Dr. Kalpita Mulye**  
Coordinator, Microbiology  
Department of Biotechnology and Microbiology



## Department of Botany (Academic Year) 2020-2021

Social distancing measures implemented to control the COVID-19 pandemic have generated one unprecedented shift, a “new normal” in Education. The academic year 2020-2021, started in a lockdown as we were challenged with an unparalleled crisis world has never experienced before. As we teachers and students shifted from offline to online mode of teaching and learning Botany teachers started conducting online remedial lectures of T.Y.B.Sc. class on zoom everyday. The Botany department then successfully conducted online theory and practical examinations for T.Y.B.Sc. Sem VI. What at first seemed like a temporary arrangement gave way to a new normal, as students finished the year remotely. The overall result of T.Y.B.Sc Sem VI was 91.66%.

The new term was not only a battle against the COVID-19 pandemic but was also taking a step towards e-learning solutions. Botany department teachers started experimenting with various platforms like Zoom, Cisco Webex, Google Meet or Microsoft Teams etc. to teach online. Teachers from the Department of Botany mentored S.Y.B.Sc and T.Y.B.Sc. students through online meetings and conducted several online remedial lectures of T.Y.B. Sc. class everyday. They evaluated performance of T.Y.B.Sc students through WhatsApp and performance of S.Y.B.Sc. students through Google form application.

The lockdown period is successfully being utilized by the Faculty of Botany for academic excellence, research activities and mentoring of students. The Department of Botany organized a Webinar on “**Resilience and Mental Well Being**” on Sunday, 21st June, 2020. **Major General Sonali Ghosal** and **Brigadier S. Jayalakshmi** both from New Delhi were invited as the resource person for the said lecture. In the first session **Major General Sonali Ghosal** spoke on the topic ‘**Management of COVID crisis in hospital and mental aspects of care givers.**’ In the second session **Brigadier S. Jayalakshmi** explained the ‘**Psychological aspects of COVID crisis**’.

The Department of Botany organized a lecture series for S.Y.B.Sc. students from 01.08.2020 to 14.08.2020 in which Dr. Urmila Kumavat delivered a lecture on **Keep yourself motivated in COVID lockdown period - Part I, Keep yourself motivated in COVID lockdown period - Part II, Google Classroom and Build Your Career**, Ms Chetana Shetty spoke on **Netiquettes (Internet etiquettes) and Soft skills for students**, Ms Priyanka Varma spoke on ‘**Derivation of words**’ and ‘**Hobbies during Lockdown**’ and **Introduction to Botanical Art and illustrations**’. Dr. Snehal Bhangale on ‘**Introduction to Google docs**’ Ms. Aishwarya Deshmukh on **Know your campus flora - An E-tour** Mr. Aditya Mahatre on **Tricks and gimmicks for MS PowerPoint**. Dr. Moitreyee Saha spoke on the topic **Heal your mind** for SYBSc students and the students from the research scholar program. Dr. Urmila Kumavat delivered a lecture on **E-Industry Visit** and Ms Chetana Shetty from Botany department engaged a lecture on **Soft skills for RSP** students. Dr.V.M.Jamdhade, Associate Professor delivered lecture for FYB.Sc. Botany students ‘**Induction Lecture**’. Dr. Moitreyee Saha delivered an online lecture for the students of FYBSc on 29.09.2020



and 30.09.2020 on '**Research**' Dr. Moitreyee Saha delivered an online lecture for Rotract Club of Thane on '**Emotional Wellness**'. She also delivered a lecture on '**Research Misconduct**' on 11.07.2020 for VPM's B.N. Bandodkar College of Science, Thane Research Committee and Department of Library She delivered a lecture on '**Research Ethics and Best Practices**' on 30.01.2021 for Online State level seminar by HSNC Board's CHM College, Ulhasnagar. Dr. Moitreyee Saha delivered an online lecture '**Research Integrity**' on 30.10.2020 and Dr. Moses Kolet, Principal, on 31.10.2020 delivered a lecture on '**Research : A journey from Paradigm to Presentation**' for the 5 Days Workshop on "EMPOWERING YOUNG MINDS: BUILDING A RESEARCH TRAJECTORY" for VPM's B.N. Bandodkar College of Science, Thane Research Committee and Department of Library. Dr. Moses Kolet, I/C Principal & Associate Professor, worked as a VC nominee subject for CAS promotion.

Dr. M. Saha and Dr. U. Kumavat published Insight - Series article in JBNB released in September, 2020 on "**Plant health monitoring using IoT: Smart options for Indian farmers**" and "**Awareness about plant health: an upsurge need of current era**" respectively. Dr. S. Bhangale, Ms. C. Shettya and Mr. A. Mhatre also Insight - viewpoint in JBNB on "**Effect of seasonal variation *in-vitro* culture studies of *Lawsonia inermis* L.**", "**Emotional intelligence in the time of covid crisis**" and "**Hive-minded microbes around us**" respectively. Dr. M. Saha and Dr. S. Bhangale published a research article in JBNB on the topic "**Evaluation of antidandruff activity of twig powder from *Lawsonia inermis* L.**". A research article on "**Effect of organic fertilizers on pigment content and cooking time of Bhindi**" was published by Dr. V. Jamdhade and Mr. A. Mhatre. Ms. Nada Noor Shaikh and Ms. Neelam Soni from S.Y.B.Sc completed a project on "**Carbon sequestration potential of tree species of VPM campus, Thane**" under the guidance of Dr. U. Kumavat and Ms. A. Deshmukh which is published as a research article in JBNB. Mr. Atul Singh from S.Y.B.Sc won second prize in an international story telling competition organized by VPM's B.N. Bandodkar College of Science, Autonomous on the occasion of Hindi Diwas.

For the new academic year 2020-21 online election among T.Y.B.Sc students was conducted for the position of Secretary, Joint secretary, Treasurer, Technical team of Botany club - Srishti, on 02/02/2021. Ms. Abhimukhi Jagtap was elected as the Secretary of Srishti club. Ms. Trirashmi Jagtap, Mr. Tejendra Singh was selected as Joint secretary and Treasurer respectively. Mr. Pratik Patil and Ms. Sakshi Pisal were voted as Heads of Technical team.

**Dr. Moitreyee Saha**, Head, Department of Botany

## **PALVI Fest 2021 (Botany Department)**

### **Poems of winners**

1st - Vipra Malandkar (TYBsc Zoology)

2nd - Saurabh Singh (SYBsc PC)

3rd - Atul Singh (SYBsc BZ)

## Department of Chemistry

At the beginning of academic year, the revision lectures for T.Y.B.Sc. and S.Y.B.Sc. students were covered in the first week. Due to pandemic situation all lectures and practicals were decided to conduct online.

Department of Chemistry in collaboration with Dr. Homi Bhabha State University, the Institute of Science, Mumbai organized two days **National Online Conference on Advances in Chemical Sciences and Sustainable Development (ACSSD-2021)** during 9<sup>th</sup> and 10<sup>th</sup> April 2021. In view of this, two preparatory workshops were arranged for betterment of students.

Every year department of chemistry is conducting two days certificate course. From this academic year it is 40 lectures certificate course entitled 'Certificate course in instrumentation and preparation of standard solutions'. This year certificate course is planned to conduct between 11<sup>th</sup> May to 21<sup>st</sup> May 2021.

Our faculties are of the highest calibre both as teachers and as researchers. Total 08 mini research projects were completed by T.Y. B.Sc. students during year based on various current research topics. The students doing mini research projects were exposed to present their work in national and state level conference as well as for science exhibition and Avishkar. One of research student of Dr. Anita Goswami-Giri awarded Ph.D. degree in this academic year. Two students namely Miss. Pranali Dhiware of current TYBSc batch and Miss. Deepti Ghodekar of last TYBSc batch qualified IIT-JAM exam.

To mention some of noteworthy achievements of faculties, Dr. Anita Goswami-Giri has worked as resource person for many workshops and motivational lectures. Mr. Ajit Bhumkar awarded by Ph.D. degree by university of Mumba Mr. Pralhad S. Wagh awarded by Ph.D. degree by university of Mumbai and also qualified State Eligibility Test (SET) conducted by University of Pune. Dr. Pralhad Wagh and Dr. S. Kahandal completed Swayam refresher course. Dr. Sandeep Kahandal has authored for the book chapter entitled 'Current advancements in COVID-19 and related human coronavirus disease therapeutic agents and vaccines' book: *Innovative Research Trends in Science and Humanities*. Page No. 45-54, **Book chapter**, INSC Publication House (IPH). **ISBN: 978-1-954461-44-4**. Ms. Mohini Kushwaha qualified Ph.D. entrance examination of University of Mumbai. Dr. Rohini Mandhare completed CSIR summer research training and also completed faculty development course. Mr. Nitin Gulvi submitted his PhD. Thesis in this academic year.

**Dr. D. R. Ambavadekar**  
Head, Dept. of Chemistry

## Department of Environmental Science and Biodiversity Conservation and Management Sanyuja 2020-21

Department of Environmental Science and Biodiversity Wildlife Conservation and Management conduct activities through the year which are majorly related to the curriculum. These activities support the theoretical knowledge gained through lectures and help students to get acquainted with research work and management practices currently being carried in the outer world.

1. On occasion of Wildlife Week department had organized **Wildlife Photography Competition-”Conservation through Lens”** for the students of VPM’s B.N. Bandodkar College of Science during the Wildlife Week (First week of October- 2020). A total of 31 students had participated in this competition.
2. On occasion of World Wildlife day i.e on 3<sup>rd</sup> March 2021 an awareness lecture on **“Mangroves- distribution, adaptation, biodiversity and conservation”** by **Mr. Hemant Karkhanis**, Associate Manager, Mangrove department, Godrej and Boyce Ltd. In his lecture sir enlightened the students about the mangrove diversity of Mumbai and its importance in maintaining the climatic balance of Mumbai region.



Wildlife Photography Competition- “Conservation through Lens”

**Dr. (Mrs.) Poonam N. Kurve**  
Coordinator, Dept. of Environmental Science  
Dept. of Biodiversity & Wildlife Conservation & Management

## Department of Human Science

### Annual report of activities conducted by Department and achievements of staff and students - 2020-21

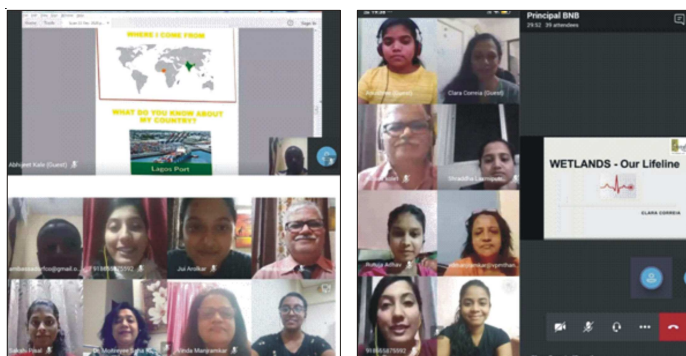
Department of Human Science and Interdisciplinary Science organized a Late Dr. V. N. Bedekar Colloquium Lecture on '**Nigeria : Culture, Economics and Education**' on 12<sup>th</sup> December 2020 to help science students learn factors related to economy in Nigeria. – Fawale Clement Olajide, Nigeria based Research scholar from Mumbai university. Students from various departments of our college attended the session.

Department of Human Science and Interdisciplinary Science, with the help of students leadership committee, organized DR. V.N .Bedekar memorial lecture on '**Wetland – Our Lifeline.**' It was held on 19<sup>th</sup> December 2020 by Ms. Clara Correia, an ornithologist and naturalist, to help students understand how important role wetlands play in our lives. This webinar ended with an informative Question-Answer session.

Ms Komal Kadam, teacher from department of Human Science, qualified UGC NET examination in December 2020. Moreover, 2 TYBSc-HS students Shravya K. and Alphy H. completed diploma in Research Scholar Program and conducted, published and presented their research paper titled – 'Perception of society on Rape myths in Mumbai', on the occasion of International women's day in the college.

Human Science students also show interest in extracurricular activities. 5 students of our department are core members of Cultural committee of college, with one of them being the Secretary. 2 TYBSc Students are part of Students Leadership Committee. Same 2 students are also working for Rotaract club of thane, and reported to have organized 5 webinars/events for the same institution and 10 webinars/events for the college.

Many students from FYBSc, SYBSc and TYBSc participated in various competitions. To elaborate upon- 3 students participated and won more than 8 competitions, 6 students attended more than 80 webinars/events organized by various colleges and institutions, and 2 students completed 4 short term diploma courses from other universities.



'Nigeria : Culture, Economics and Education'

**Dr. (Mrs.) Vinda Manjramkar**  
Coordinator, Dept. of Human Science



# Activity Report for Department of Computer Science and Information Technology

This Report Mainly focusing on the activities performed by the Staff of Computer Science and Information Technology Department. Due to the Covid-19 Pandemic, It became important to go online for education purpose.

In this time period, it was important to learn how to generate E content as well as IPR issues, also getting knowledge of current trending courses which is advantageous for teachers as well.

Multiple technologies were brought to attention, which can be used as an ICT during the sessions with students in order to make the session more effective.

The activities performed/ events attended were in the time period from March 2020 to April 2021.

## 1) Mr. Abhijeet Kale Completed/Attended following courses/workshops/webinar

- Attended Webinar on “Online Teaching Masterclass- Teacher Exclusive” organized by IIDE (Indian Institute of Digital Education) on April 25, 2020.
- Attended webinar on “Artificial Intelligence” organized by The Magic Data and Satish Pradhan Dnyaynsadhana College Thane.
- Webinar on” Future of Training & Placement is REMOTE” and “Tools for TPOs in 2020 to increase productivity” organized by GREYATOM on May 03, 2020.
- Completed a course on “PHP and SQL” offered by Spoken Tutorial Project, IIT Bombay on May 05, 2020.
- Attended webinar on “How to create Educational Videos” organized by knowledge publications on May 10, 2020.
- Attended webinar on “MS-Excel - Data Analytics and Visualization Techniques” organized by Valia Center of Excellence on May 19, 2020.
- Attended Webinar on “Data Science, Artificial Intelligence and Robotics: Future and Prospects” organized by Narsee Monjee College of Commerce and Economics on June 02, 2020.
- Attended webinar on “The Dawn of Artificial Intelligence: A boon to the Business World” organized by Valia Chhaganlal Laljibhai College of Commerce on June 03, 2020.
- Attended Program on “Online Energy Conservation Awareness Program” Organized by AEPIC, Lakshmibai College, University of Delhi on June 05, 2020.



- Completed Certificate course in “Career Guidance and Counselling” organized by Garware Institute Career Education and Development on October 18, 2020.
- Completed FDP on “Online FDP on “Block chain” organized by ALL INDIA COUNCIL FOR TECHNICAL EDUCATION on December 11, 2020.
- Completed FDP on “Online FDP on “Internet of Things (IoT)”” organized by ALL INDIA COUNCIL FOR TECHNICAL EDUCATION on December 11, 2020.

### 2) Mr. Tejas Jadhav Completed/Attended following courses/workshops/webinar

- Completed course of “Java Business Application” organized by Vikas College of arts science and commerce on March 10, 2020.
- Completed course of “Advanced CPP” organized by Vikas College of arts science and commerce on March 11, 2020.
- Attended webinar on “Online Teaching Masterclass” organized by IIDE (Indian Institute of Digital Education) on April 25, 2020.
- Attended webinar on “E-content Development” organized by White code on April 28, 2020.
- Webinar on “Robotic Process Automation” organized by AVM’s KARMAVEER BHAURAO PATIL DEGREE COLLEGE, THANE on April 29, 2020.
- Completed Course on “R-Programming” organized by Jai Hind College on April 30, 2020.
- Attended webinar on “Artificial Intelligence” presented by Satish Pradhan Dnyanasadhana College, Thane (W) on May 01, 2020.
- Attended webinar on “Cyber Security in Coronavirus Era: Prevention and Protection” Organized by C T Bora College (Arts, Commerce & Science), Shirur, Dist. – Pune on May 04, 2020.
- Completed course on “Arduino Basic” organized by Kaizen Institute on May 04, 2020.
- Completed Course of “Java Business Application” offered by Spoken Tutorial Project on May 05, 2020.
- Attended webinar on “Responsibility in Covid-19” organized by Thakur College of Science and commerce on May 11, 2020.
- Attended webinar on “impct of covid-19 on indian and global economy” organized by Thakur College of Science and commerce on May 12, 2020.
- Attended webinar on “E content Development” organized by Thakur College of Science and commerce on May 15, 2020.

- Completed workshop on “NET/SET Preparation” arranged by Rani Channamma University on May 29, 2020.
- Attended webinar on “REPROGRAM YOUR MIND THROUGH NLP” Organized by Indian Academicians and Researchers Association ( I A R A ) on September 28, 2020.
- Completed FDP on “AR and VR” offered by AICTE ATAL Programme on January 04, 2021.
- Completed FDP on “Artificial Intelligence” offered by AICTE ATAL Programme on January 18, 2021.

3) Mr. Abhishek Vartak Completed/Attended following courses/workshops/webinar

- Attended webinar on “Online Teaching Masterclass” organized by IIDE (Indian Institute of Digital Education) on April 25, 2020.
- Completed FDP on “MOODLE for Teachers” offered by Spoken Tutorial Project of IIT Bombay in collaboration with SST College on April 27, 2020.
- Attended webinar on “E-content Development” organized by White code on April 28, 2020.
- Completed workshop on “Basic Arduino” organized by Kaizen Futuretech on April 30, 2020.
- Attended webinar on “Artificial Intelligence” presented by Satish Pradhan Dnyanasadhana College, Thane (W) on May 01, 2020.
- Completed Course of “Java Business Application” offered by Spoken Tutorial Project on May 05, 2020.
- Completed FDP on “R programming and Data Science” offered by Spoken Tutorial Project of IIT Bombay in collaboration with Jai Hind College of Engineering on May 15, 2020.
- Completed FDP on “Arduino” offered by Spoken Tutorial Project of IIT Bombay in collaboration with Jai Hind College of Engineering on May 19, 2020.
- Attended webinar on “NTA NET Paper 2” organized by Jashbhai Maganbhai Patel College on May 31, 2020.
- Attended webinar on “NTA NET Paper 1 and 2” organized by Maharashtra College on June 09, 2020.
- Completed FDP “Train The Trainer” organized by VPM’s Advanced Study Center Thane from June 17, 2020 to July 8, 2020.
- Attended workshop on “Effective E content Design” organized by KPB Hinduja College on June 25, 2020.

- Attended webinar on “Microsoft Innovative Educator” organized by Microsoft Educator Center India on June 26, 2020.
  - Attended webinar on “Role of Data Analytics in Post Covid World” organized by VPM’s B.N.Bandodkar College of Science Autonomous Thane on June 27, 2020.
  - Attended webinar on “NDLI - A Knowledge Reservoir” arranged by VPM’s Advanced Study Center Thane on July 15, 2020.
  - Attended webinar on “Cyber Security” arranged by VPM’s Advanced Study Center Thane on July 22, 2020.
  - Attended webinar on “Data Analysis” arranged by VPM’s Advanced Study Center Thane on August 19, 2020.
  - Attended webinar on “Augmented Reality for Science Education” organized by EDU360 Knowledge Solutions on August 31, 2020.
  - Attended Webinar on “Email Marketing 101” organized by IIDE (Indian Institute of Digital Education) on September 02, 2020.
  - Completed FDP on “Artificial Intelligence” offered by AICTE ATAL Programme from February 08, 2021 to February 12, 2021.
- 4) Ms. Shraddha Singh Completed/Attended following courses/workshops/webinar
- Attended Webinar on “The Pandemic Disease “COVID -19” Awareness Program” VPM’S B.N Bandodkar College of Science Thane on May 29, 2020.
  - Completed FDP “Train The Trainer” organized by VPM’s Advanced Study Center Thane from June 17, 2020 to July 8, 2020.
  - Attended webinar on “Cyber Security” arranged by VPM’s Advanced Study Center Thane on July 22, 2020.
- 5) Ms.Snehal Bhosale Completed/Attended following courses/workshops/webinar
- Completed FDP on “MOODLE for Teachers” offered by Spoken Tutorial Project of IIT Bombay in collaboration with SST College on April 27, 2020.
  - Attended webinar on “Microsoft Innovative Educator” organized by Microsoft Educator Center India on June 26, 2020.
- 6) Ms. Ruchika Bamnote Completed/Attended following courses/workshops/webinar
- Attended webinar on “New ways to search in web of science” organized by Research Committee & Dept. of Library of VPM’s B N Bandodkar College of Science Autonomous, Thane on April 07, 2020.
  - Attended webinar on “E-content development & intellectual property rights” arranged by The regional joint director, higher education, kokan region, panvel & SONOPANT

Sonopant Dandekar arts, V. S. Apte commerce & M. H. Mehta science college, Palghar on April 27, 2020.

- Attended webinar on “Artificial Intelligence” arranged by Satish Pradhan Dnyansadhana College, Thane on May 01, 2020.
- Completed workshop on “Arduino” organized by Dept. of Electronics & Telecommunication, Jaihind College of Engineering, Kuran, Pune on May 19, 2020.
- Workshop on “Core Arduino Programming” organized by Kaizen Futuretech by YouTube channel of Kavedia Sir on May 21, 2020.
- Attended webinar on “Importance of concentration in E-Learning” organized by Self Financing department of V. K. Krishna Menon College, Bhandup, Mumbai on May 30, 2020.
- Attended program on “pandemic disease “COVID-19” Awareness Program” by IQAC, VPM’s B N Bandodkar College of science Autonomous, Thane on June 05, 2020.
- Attended webinar on “The patenting process” organized by Research Committee & Dept. of Library of VPM’s B N Bandodkar College of Science Autonomous, Thane on June 06, 2020.
- Completed FDP on “Future of examinations: Bloom’s taxonomy & multiple assessment tools” organized by G. T. N. Arts College, Dindigul, Tamilnadu on June 08, 2020.
- Webinar on “The value of Values” organized by Vedanta College on June 08, 2020.
- Webinar on “Understanding journal indexing & citation database” organized by Research Committee & Dept. of Library of VPM’s B N Bandodkar College of Science Autonomous, Thane on June 13 2020.
- Completed workshop on “Basics of Python” organized by Kaizen Futuretech on June 17, 2020.
- Completed workshop on “Exploring mobile phone as an effective tool for online teaching & learning” organized by Lala Lajpatrai college of commerce & economics & R A Pdar college of commerce & economics & Maha Bridge on June 18, 2020.
- Attended webinar on “National digital library of India: A useful source of information” organized by Research Committee & Dept. of Library of VPM’s B N Bandodkar College of Science Autonomous, Thane on June 20, 2020.
- Attended webinar on “Importance of Effective E-content Design & Development for Online Teaching in Higher Education” organized by IT dept. of K.P.B. Hinduja College of Commerce, Mumbai on June 25, 2020.

- Completed Course on “Certified Microsoft Innovative Educator” Offered by Microsoft India on June 26, 2020.
- Completed Course on “Flipped instruction with PowerPoint Recorder” Offered by Microsoft India on June 28, 2020.
- Completed FDP on “PHP & MySQL” offered by Spoken Tutorial Project of IIT Bombay on July 06, 2020.
- Completed FDP on “Train the Trainer” organized by VPM’s Advanced Study Centre, Thane from June 17 to July 08, 2020.
- Webinar on “Research misconduct” organized by Research Committee & Dept. of Library of VPM’s B N Bandodkar College of Science Autonomous, Thane on July 11, 2020.
- Attended webinar on “NDLI - A knowledge Reservoir” organized by VPM’s Advance Study Centre, Thane on July 15, 2020.

7) Ms.Snehal Singh Completed/Attended following courses/workshops/webinar

- Attended webinar on “Online Teaching Masterclass” organized by IIDE (Indian Institute of Digital Education) on April 25, 2020.
- Attended webinar on "E- content development and IPR” organized by v s apte commerce and m h mehta science college on April 26, 2020.
- Completed FDP on “MOODLE for Teachers” offered by Spoken Tutorial Project of IIT Bombay in collaboration with SST College on April 27, 2020.
- Completed Course on “Core JAVA” organized by M H College on April 29, 2020.
- Attended webinar on “The patenting process” organized by Research Committee & Dept. of Library of VPM’s B N Bandodkar College of Science Autonomous, Thane on June 06, 2020.
- Attended webinar on “Understanding journal indexing and citation database” organized by VPM’s B N Bandodkar College of Science Autonomous, Thane on June 13, 2020.
- Attended webinar on “ THE ROLE OF DATA ANANLYTICS AND DIGITAL ASSET IN POST COVID WORLD” organized by VPM’s B N Bandodkar College of Science Autonomous, Thane on June 27, 2020.
- Completed FDP on “Train the Trainer” organized by VPM’s Advanced Study Centre, Thane from June 17 to July 08, 2020.
- Attended webinar on “Cyber Security” arranged by VPM’s Advanced Study Center Thane on July 22, 2020.



**8) Ms. Akshita Gawade Completed/Attended following courses/workshops/webinar**

- Attended webinar on "E-content development & intellectual property rights" arranged by The regional joint director, higher education, kokan region, panvel & Sonopant Dandekar arts, V. S. Apte commerce & M. H. Mehta science college, Palghar on April 27, 2020.
- Attended webinar on "Artificial Intelligence" arranged by Satish Pradhan Dnyansadhana College, Thane on May 01, 2020.
- Attended webinar on "Role of IT in tackling covid 19 issue" organized by Vikas College of Arts and Commerce Vikroli on May 11, 2020.
- Attended webinar on "Corporate and social responsibility in Times of covid 19" organized by Thakur College of Arts and Commerce on May 11, 2020.
- Attended webinar on "Impact of Covid-19 on India and Global Economy" organized by Thakur College of Arts and Commerce on May 12, 2020.
- Attended webinar on "Rise of E content Development" organized by Thakur College of Arts and Commerce on May 15, 2020.

**9) Ms. Gauravi Acharekar Completed/Attended following courses/workshops/webinar**

- Course of Moodle Test for Teachers, organized by SST college of Arts and Commerce from April 21, 2020 to April 27, 2020.
- Webinar on "Online Teaching Master Class - Teachers Exclusive" organized by IIDE on April 25, 2020.
- Webinar on "E-content Development and Intellectual Property Rights" organized by The Regional Joint Director, Higher Education, Kokan Region on April 27, 2020.
- FDP on Linux, organized by Spoken Tutorial Project IIT Bombay and Nirmala Memorial Foundation College of commerce and science on April 28, 2020.
- "Awareness Program" organized by VPM's B.N. Bhandodkar College of Science Autonomous Thane on April 29, 2020.
- Webinar on the topic "Artificial Intelligence", organized by Satish Pradhan Dnyanasadhana College Thane on May 01, 2020.
- Course on "Java Business Application", organized by Vikas College of Arts, Commerce and Science from April 29, 2020 to May 05, 2020.
- Webinar on "Corporate Social Responsibility in Times of Covid-19" organized by Thakur College of Science and Commerce on May 11, 2020.
- Workshop on "NET/SET Preparation in Computer Science and Application" organized by Rani Channamma University on May 25, 2020.

**10) Ms.Ankita Shinde Completed/Attended following courses/workshops/webinar**

- Attended webinar on “Online Teaching Masterclass” organized by IIDE (Indian Institute of Digital Education) on April 25, 2020.
- Attended webinar on” E-content development & intellectual property rights” arranged by The regional joint director, higher education, kokan region, panel & SONOPANT Sonopant Dandekar arts, V. S. Apte commerce & M. H. Mehta science college, Palghar on April 27, 2020.
- Webinar on “Robotic Process Automation” organized by AVM’s KARMAVEER BHAURAO PATIL DEGREE COLLEGE, THANE on April 29, 2020.
- Attended webinar on “Artificial Intelligence” arranged by Satish Pradhan Dnyansadhana College, Thane on May 01, 2020.
- Workshop on “Core Arduino Programming” organized by Kaizen Futuretech by YouTube channel of Kavedia Sir on May 21, 2020.
- Completed Course of “Java Business Application” offered by Spoken Tutorial Project on May 05, 2020.
- Attended webinar on “Changing Role of Teachers in Post COVID Scenario Opportunities & Challenges” organized by ADARSH COLLEGE OF ARTS & COMMERCE KULGAON-BADLAPUR on May 11, 2020.
- Attended webinar on “Corporate and social responsibility in Times of covid 19” organized by Thakur College of Arts and Commerce on May 11, 2020.
- Attended webinar on “Impact of Covid-19 on India and Global Economy” organized by Thakur College of Arts and Commerce on May 12, 2020.
- Attended webinar on “Rise of E content Development” organized by Thakur College of Arts and Commerce on May 15, 2020.
- Completed FDP on “R programming and Data Science” offered by Spoken Tutorial Project of IIT Bombay in collaboration with Jai Hind College of Engineering on May 15, 2020.
- Completed workshop on “Arduino” organized by Dept. of Electronics & Telecommunication, Jaihind College of Engineering, Kuran, Pune on May 19, 2020.
- Workshop on “Core Arduino Programming” organized by Kaizen Futuretech by YouTube channel of Kavedia Sir on May 21, 2020.
- Completed workshop on “NET/SET Preparation” arranged by Rani Channamma University on May 29, 2020.
- Completed FDP on “Evolution from Offline to Online Teaching” organized by Satish Pradhan Dnyanasadhana College, Thane & YCMOU (Mumbai Regional Centre) & Microsoft on June 03, 2020.

- Attended webinar on “The patenting process” organized by Research Committee & Dept. of Library of VPM’s B N Bandodkar College of Science Autonomous, Thane on June 06, 2020.
- Completed FDP on “LaTex” organized by Shri Vile Parle Kelavani Mandal’s Institute of Technology, Dhule in association with Spoken Tutorial, Indian Institute of Technology Bombay on June 07, 2020.
- Completed workshop on “Basics of Python” organized by Kaizen Futuretech on June 17, 2020.
- Completed FDP “Train The Trainer” organized by VPM’s Advanced Study Center Thane from June 17, 2020 to July 8, 2020.
- Attended webinar on “NDLI - A Knowledge Reservoir” arranged by VPM’s Advanced Study Center Thane on July 15, 2020.
- Attended webinar on “Cyber Security” arranged by VPM’s Advanced Study Center Thane on July 22, 2020.
- Attended webinar on “Data Analysis” arranged by VPM’s Advanced Study Center Thane on August 19, 2020.

11) Ms. Monika Warungase completed/Attended following courses/workshops/webinar

- Completed FDP on “MOODLE for Teachers” offered by Spoken Tutorial Project of IIT Bombay in collaboration with SST College on April 27, 2020.
- Attended webinar on “E-content development & intellectual property rights” arranged by The regional joint director, higher education, kokan region, panel & SONOPANT Sonopant Dandekar arts, V. S. Apte commerce & M. H. Mehta science college, Palghar on April 27, 2020.
- Completed FDP on “JAVA Application” organized by Spoken Tutorial Project of IIT Bombay in Collaboration with Vikas College of Arts, commerce and Science Vikroli on May 05, 2020.
- Completed workshop on “Online Teaching FDP” organized by Satish Pradhan Dnyansadhana College Thane on June 03, 2020.
- Completed FDP on “LaTex” organized by Shri Vile Parle Kelavani Mandal’s Institute of Technology, Dhule in association with Spoken Tutorial, Indian Institute of Technology Bombay on June 07, 2020.

**Mr. Abhijeet Kale**

Head,

Department of Information Technology  
and Computer Science

## Department of Mathematics

During the academic year 2020-21 the department of mathematics conducted four activities as follows:

Sr. No	Date	Name of the activity	Resource person
1	29/08/2020	Webinar on “Career in Mathematics”	Dr. R. G. SapreGogte - Joglekar college, Ratnagiri
2	12/09/2020	Webinar on “Future perspectives in Digital Marketing”	Mr. Sanjog Meshram, IIM, Bangalore
3	05/03/2021	Webinar on “Life and inventions of Ramanujan”	Dr. Sudhakar Agarkar, Dean, VPM'S Academy of International Education and Research, Thane
4	10/03/2021	MATHLETE 2021	Yearly Mathematics fest

### Webinar on “Career in Mathematics”

Department of Mathematics organized a webinar on “Careers in Mathematics” on August 29, 2020. Resource person invited to deliver a talk was Dr. R.G. Sapre (Msc. Ph.D, MCA) Head, Department of Mathematics, Gogate Joglekar College, Ratnagiri.

Dr. R. G. Sapre explored all paths of career related to the subject mathematics. There were twelve different career options that he talked about with power point presentation.

124 students of SYBSc and TYBSc along with the teacher staff of other colleges attended the seminar.

### Webinar on “Future perspectives in Digital Marketing”

Department of Mathematics organized a webinar on “Future perspectives in Digital Marketing” on September 12, 2020. Resource person invited to deliver a talk was Mr. Sanjog Meshram (IIM, Bangalore)

Mr. Sanjog Meshram gave the brief idea of digital marketing and also focused on future perspectives of digital marketing especially in the field of affiliate marketing.

188 students of SYBSc and TYBSc along with the teacher staff attended the seminar.

### Webinar on “Life and inventions of Ramanujan”

Department of Mathematics organised a guest Lecture on 5<sup>th</sup> March, 2021 on Google meet platform. The guest invited for the lecture was Dr Sudhakar Agarkar, Professor and

Dean, VPM'S Academy of International Education and Research, Thane.

Dr Sudhakar Agarkar started the lecture by giving the brief idea of the whole life journey of famous Mathematician Shrinivas Ramanujan Aiyangar (22 December 1887 – 26 April 1920). He discussed about his Struggle from madras to Cambridge followed by about his lifestyle, Professional career, Academic role, and work in the field of research.

Dr Sudhakar Agarkar explained the bond between Ramanujan and professor G.H. Hardy who was the guide of Ramanujan In University of Cambridge. Also, he presented the slides on the inventions and discoveries of Ramanujan. Then he further talked about the very interesting smallest digit Number 1729 which can be written as the sum of the cube of two different numbers. Then he ended his lecture by giving an idea about “Ramanujan’s magic square”.

Total 95 Students from F.Y.B.Sc, S.Y.B.Sc and T.Y.B.Sc and 6 teachers were present for lecture.

### **REPORT OF FEST “MATHLETE 2021”**

Mathematics club “Siddhant” organized fest “Mathlete 2021” this year through an Online Mode. The registrations and Content Submissions for different events are started from 1<sup>st</sup> March 2021. On different days the competitions were taken and All SY.BSC, F.Y.BSc, T.Y.BSc and F.Y.J.C ,S.Y.J.C students are also participated in various activities and the results was finalized by Experts.

The prize distribution event of “Mathlete 2021” is organized on 10<sup>th</sup> March from 12 noon to 2pm. 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 PPT of “Flashback of mathlete” is presented by Mrs. Wankhede Madam, Then Game leaders shared their experiences and results of each events was announced. Total there are 75 Students and 6 teachers and our College Alumni were also present for the event and they enjoyed it.

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

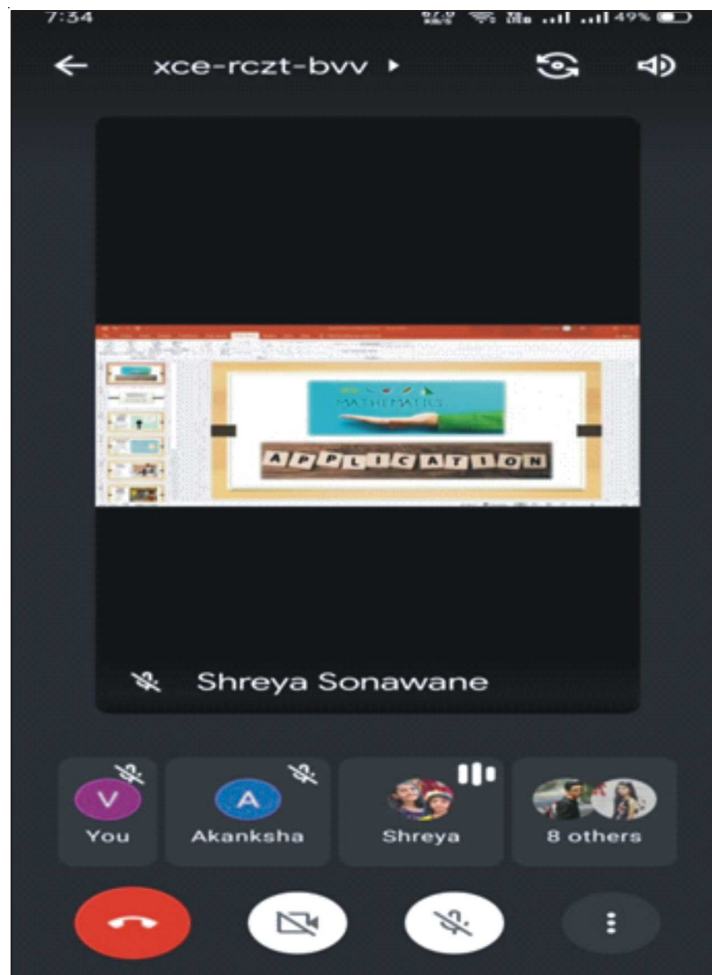
Sr. No.	Name of the Game	No. of. Participants	Winners
1	Mind Buster (Quiz)	50 registrations Round 1: 5 <sup>th</sup> March (Google Form) Round 2: 6 <sup>th</sup> March (Google Form)3 <sup>rd</sup> Round: 6 <sup>th</sup> March (Google Meet)	1 <sup>st</sup> : Vinayak Mokashi 2 <sup>nd</sup> : Atharva Patil 3 <sup>rd</sup> : Biswajit Panda Consolation prize: Ryanston Rodriger



## SANYUJA 2020-21

2	Maths Rangeela (Poster making)	20	1 <sup>st</sup> : Sneha Kubal 2 <sup>nd</sup> : Saurabh Singh 3 <sup>rd</sup> : Siddharth Jadhav
3	Just Shoot Me (Photography Competition)	11	1 <sup>st</sup> : Prince Tiwari 2 <sup>nd</sup> : Nimisha Patil 3 <sup>rd</sup> : Tejal Bhoys
4	Dil ki Baat (Letter writing)	20	1 <sup>st</sup> : Dhiraj padwale 2 <sup>nd</sup> : Vikas Badade, Huma Khan 3 <sup>rd</sup> : Ryanston Rodriger
5	Representing Inventions(PPT)	10	1 <sup>st</sup> : Shreya Sonavane 2 <sup>nd</sup> : Aniruddha Shelke 3 <sup>rd</sup> : Shravani Patne

Representing Inventions (PPT Presentation):



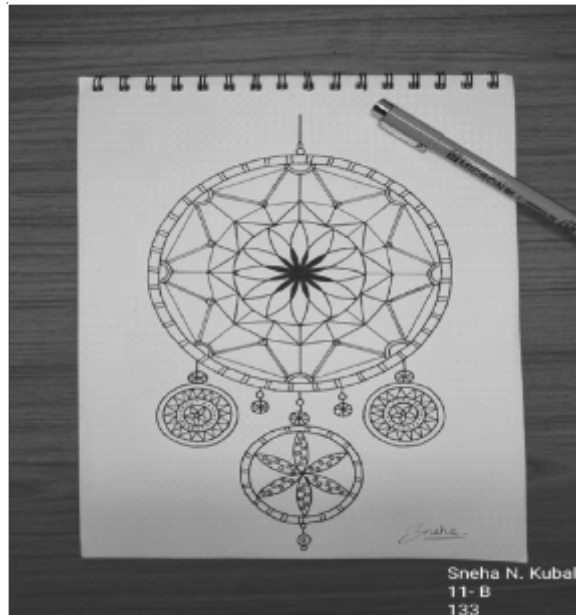
**Just Shoot Me (Photography Competition):**

Prince Tiwari  
SYBSC  
SYBSc(MS)



In the image you can see 4 boats are there, and one beautiful thing is they make a quadrilateral shape if we draw imaginary line. The mountain showing the graph of heterogeneous values and the sun at the set is making an angle from where it's rays are landing on earth. The water is in continuation which reminds the continuous variables. These things I observed while searching the space for the picture. Hope you like it. Thank you.

**Maths Rangeela (Poster making):**



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

## Department of Statistics

# Sankhya Club Activity Report 2020-2021

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 socio-economic 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. 29<sup>th</sup> June marked the beginning of the 128<sup>th</sup> year of birth of Prof. P.C. Mahalanobis so due to Pandemic this year Department of Statistics has held an online celebration which was culminated from 3<sup>rd</sup> August, 2020 to 7<sup>th</sup> August, 2020 from 8 to 9.40 am for T.Y.B.Sc. students using **GOOGLE MEET** online platform. T.Y.B.Sc. students hosted the programme by welcoming all teachers and students and gave description of National Statistics Day. The TYBSc Statistics students prepared various presentations on the concept of NSSO, practical applications of Statistics, The use of Statistics in Sports 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 17 groups of T.Y.B.Sc which consists of in all 56 students who shared their knowledge related to Statistics along with them Incharge Head of Department and three faculty members attended the program.

Next event organized was Online Webinar of Statistics Club on topic “**Introduction to Clinical Trials**” and invited “**Dr. Vinay Pawar**” as the speaker who is Associate Professor in the Department of Sanskrit Samhita Siddhant in D.Y.Patil University, School of Ayurveda, Nerul. The lecture was conducted using **GOOGLE MEET** online Platform on 19<sup>th</sup> September, 2020 at 11.00 am. Total number of participants was 121. The chief guest, Dr. Vinay Pawar introduced the students to the concepts of Clinical Trials. He spoke and gave valuable information on following points.

- Drug Development Process (development of a vaccine, example: COVID 19).
- Role of Physicians and Statisticians in Drug Development Process.
- Role of Statisticians in Research.
- Clinical Research – it’s Definition, need, steps involved and real life examples.
- Good Clinical Practices(GCP), it’s application and purposes.
- Steps involved in Research are Planning, Operation and Reporting.
- Design of study.
- Concepts of Bias v/s Error
- Types of Bias are selection, prevalence, recall and information.
- Steps involved in Limiting Bias are Randomization and Blinding/Masking.
- Types of Research studies – observational and interventional study.

- Single Group study Design
- Controlled studies
- Process of Randomized Controlled Trials (RCT)
- Process of Placebo Controlled Trials (PCT)
- Non – Randomized Trials
- Types of RCT- parallel, cross over
- Factorial Design and Clusters
- Phases of Clinical Trials
- Pre Clinical Trials
- Study Protocol
- Indian GCP Guidelines

Next activity was online field visit arranged on 10<sup>th</sup> February, 2021 using **WEBEX** online Platform at 11am. The aim of online “**Field visit**” is to enhance the knowledge of further career opportunities in Statistics and to encourage them for higher studies. Keeping this aim in mind, field visit was arranged for students from T.Y.B.Sc Statistics to “**International Institute for Population Science, Govandi**”. Total 50 students with 04 teaching faculty attended the online visit. The students were guided by Prof. Dr. Kailash Chandra Das from Department of Migration and Urban Studies who gave lecture on various courses institute offers after the completion of Graduation. He made students aware about IIPS three major tasks- Teaching, Research and Consultancy.

Next event was Online Celebration of Statistics Fest named “**STAT – O –SPHERE**” arranged by T.Y.B.Sc Statistics students. The tradition of conducting departmental fest has been going on in the Statistics Department since 2016. Due to the ongoing pandemic, conducting the fest within the college was not possible. For the first time ever, the students of T.Y.B.Sc Statistics conducted a two-day fest exclusively online via Google Meet. The name of the fest was ‘**Stat-O-Sphere**’, which can be explained as a collection of all things related to Statistics. The event was conducted on 15<sup>th</sup> and 16<sup>th</sup> March, 2021 in between 10 am to 1pm. Mr. Ryanston Rodrigues and Mr. Vinayak Mokashi worked as the Secretary and Joint Secretary respectively. The objective of the fest was to inculcate a competitive spirit in all our students, provide a platform to showcase their talents and skills and also encourage participation from the various departments in the college. Total of 04 teaching staff, 80 students was present for the event.

Due to Pandemic, students organized this fest using online mode and accepted all participants using online google form entries. The events in Stats Fest were as follows:

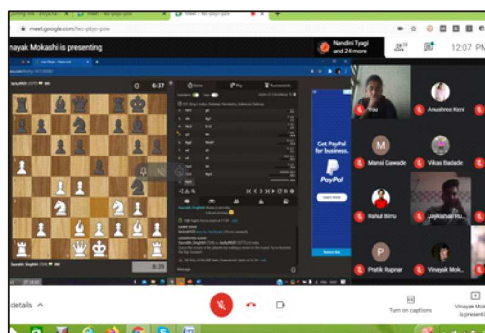
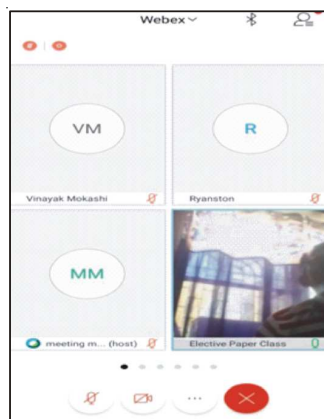
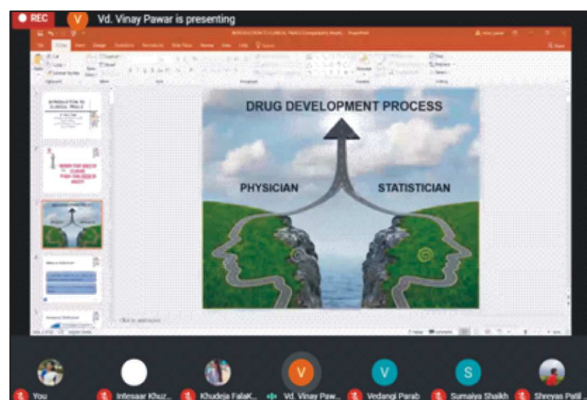
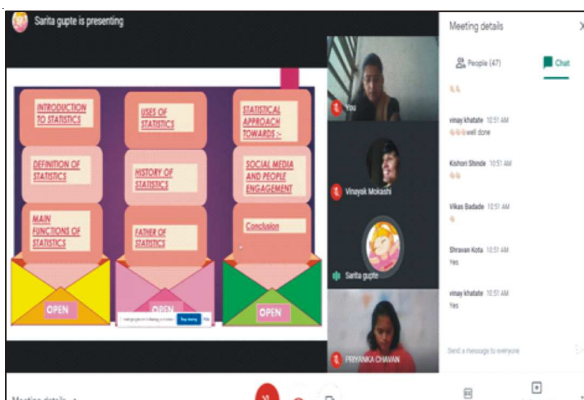
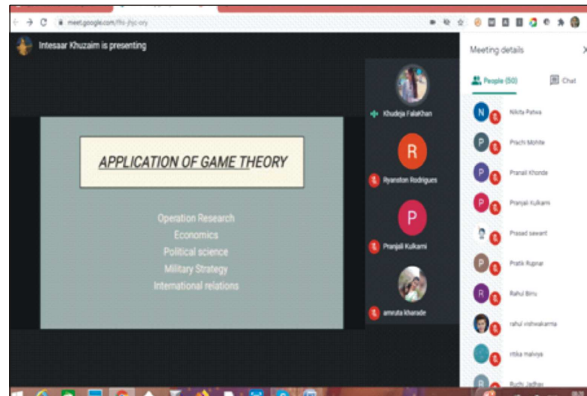
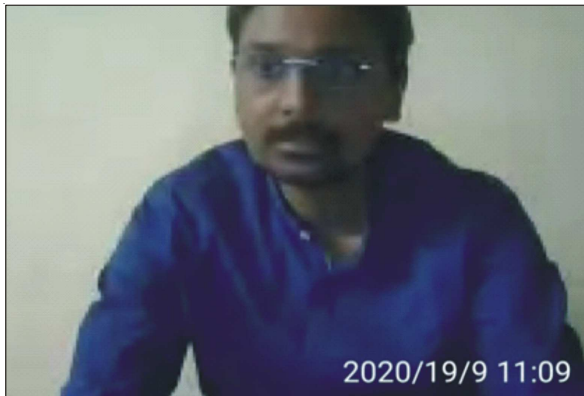
1. Hit the Point (Power Point Presentation)
2. Meme - Nawazi (Meme Making Competition)
3. Stat Wars (Quiz Competition)
4. Luck Apna Apna (Housie)



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5. The Art Station (Sketching, Zentangle Art and Poster Making Competition)
6. Jung – E – Shatranj (Chess Competition)
7. Woh Din Bhi Kya Din The (Reel Making Challenge on theme College Memories).

Before the programme going live on the scheduled days, the submissions for the events 'The Art Station', 'Woh Din Bhi Kya Din The' and 'Meme-Nawazi' were collected. The preliminary rounds for both the chess and quiz competitions were also conducted beforehand.



**Ms. Divya Nair**  
Coordinator, Dept. of Statistics



## Department of Zoology

A colloquium Lecture series organized by the Department of Zoology on Monday 30<sup>th</sup> Nov 2020 via online mode with Google meet platform at 4.00 pm. The topic of a colloquium lecture was “**Electron Microscope an Indispensable tool in Biological Investigations**” which was delivered by Dr. Manoj Borkar, Associate professor, HOD zoology, Carmel College of woman, Nuvem Goa. Total about 60 individuals including faculty attended the colloquium lecture.

Greenforce Nature club of Zoology Department organized Guest Lecture by an eminent personality Umeshchandra P. Dhotekar (Retired Forest officer, Nagpur) on Wednesday, 3<sup>rd</sup> March 2021 via Online Google meet platform at 3.00pm to 5.00pm. The lecture was based on the theme of “**Career in Wildlife & Forestry**” for the same. More than 60 students including faculty members from different Universities attended the lecture.

Dr. Sudesh Rathod was invited as resource person at Manasi Bharat Gada degree college of Commerce, Bhivandi. He delivered a talk on, “**Research data collection – its systematic arrangement and data analysis**” on 22<sup>nd</sup> January 2021.

Dr. Vinda Manjramkar delivered a lecture on **Interdisciplinary Approach in Research** on 5<sup>th</sup> August 2020 for Webinar titled, **Inquisitive Mind**.

Published a research paper titled, “**Domestication or Rice varieties and utility**”.

JBNB Vol (9)-2020 ISSN 2454-2776.

Dr. Poonam Kurve published following research papers:

1. Effect of declining fish diversity on the fishermen community of Alimghar, Thane district, (M.S.), India. *J.Env.Bio.Sc.* Vol 33(2): 251-255. [ISSN 0973-6913 (Print), ISSN 0976-3384 (On Line)]. SJIF: 5.589 (UJ No. 7379).
2. Nesting site studies of White-bellied Sea Eagle (*Haliaeetus leucogaster* Gmelin, 1788) along Konkan Coast, Dist. Ratnagiri, M. S., India. *Eco. Env. & Cons.* 27 (February Suppl. Issue): 2021; pp. (S108-S115).

**Dr. Sudesh Rathod**  
HOD, Dept of Zoology

## Anubandh Alumni Association

During lockdown Anubandh Alumni association had organised webinars on different topics.

A Webinar on “A Role of Data Analytics and Digital Assets in Post Covid World” was conducted on 27<sup>th</sup> June 2020. Mr Shailesh Dhuri, Founder and Chief Executive Officer, Decimal Point Analytics discussed about data analytics, career opportunities in data analytics. 74 students attended this webinar.

A Webinar on “Immunity Checkbox” was organised on 5<sup>th</sup> July 2020. Ms Meghana Mane, Product Manager, CTL Diagnostics and Pathology were guided about fitness. She also discussed about diet during the Covid situation. 45 students attended this webinar.

On the occasion of Vachan Prerana Diwas, on 15<sup>th</sup> October 2020 a Webinar on “National Education Policy” was held. Dr Vijay Joshi, Chief Consultant, RUSA, Maharashtra enlighten the students about the new changes in National Education Policy. 187 students attended this webinar.

Five days’ Workshop on “How Statistics Can Make Your life Easy” was conducted from 21<sup>st</sup> October to 26<sup>th</sup> October 2020. Our alumna from Statistics department Ms Sheetal Chabukswar, Asst Professor, Dept of Statistics, University of Mumbai guided the students. The workshop covered the different topics as- Introduction to Statistics, Measures of Central Tendency, Measures of Dispersion, Time Series analysis and Probabilities. At the end of 5<sup>th</sup> day an online test was conducted. This workshop was attended by 112 students.

Some departments invited their outstanding alumni for interactive sessions with the students and staff on the current developments in the field. These sessions inspire the students and expose them to the opportunities in the field for research as well as employment.

**Mrs. Kadambari Manjrekar**  
Librarian

## College-School Complex & Science Square Committee

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

### ❖ National Science Day Celebration

Every year National science day of India is celebrated on 28th February in the memory of Late Sir CHRANDRASHEKHARA VENKAT RAMAN who discovered 'Raman Effect' which received Nobel Prize in 1930. It is not only a memorable day but also an honoured tradition among scientists and academic community of India.

In VPM's B. N. Bandodkar College of Science, Research Committee and Science Square Committee jointly organized and celebrated 'National Science Day' on Friday, 28<sup>th</sup> February 2020 through offline mode. The celebration included a poster presentation session, inauguration of e-journal i.e. JBNB and a guest lecture. It was attended by **168 students**. The **Chief Guest** of this function was **Scientist Astronaut Candidate Pranit Patil from Possum Project, NASA, United States**. This year diversified poster presentations were appreciated by **Chief Guest, I/C Principal Mr. Venkatraman, Vice Principal Dr. Ambavadekar and all teaching staff**. The poster presentation session included posters of **10 Mini Research Projects** completed under Research Scholar Programme and Science Square Scheme. An eminent panel of judges assessed all these presentations and selected best presentations along with consolation prizes. Thus the celebration of science started with competitive spirit and great enthusiasm among young researchers.

Later the formal function of National Science Day began with welcome address delivered by **I/C Principal Mr. Venkatraman**. He briefed about VPM institutes and various activities conducted by the college to enhance research aptitude of the students. After this, **Dr. Moitreyee Saha** (Co-coordinator, Research Committee and Managing Editor of JBNB) expressed the theme of e-journal; JBNB (Journal of B.N.Bandodkar) and recent modifications of it. The main highlight of function was **digital inauguration of e-JBNB** which was inaugurated at the hands of **Chief Guest Scientist Astronaut Candidate Pranit Patil**. The **compiled booklet of Mini-Research Project of academic year 2019-2020** was also released by Patil Sir.

Later Patil Sir enlightened all audience with his words of wisdom. The very young astronaut started his talk with introduction about space exploration with glimpses of space tourism, space sports and Mars mission. He elaborated on need of Mars exploration by human involvement instead of robots for inspiration of budding researchers. He gave a brief idea of advance fuel strategies used in propulsions space ships. He presented excellent presentation with photos to explain concepts of International space centre, rockets, speed of space ships, antimatter and positron based fuels. He narrated about Kepler's mission, Northern Light, Red sprites phenomenon. His videos about 'G testing' and 'Landing of Curiosity space ship on Mars' have mesmerized all audience. At the end, Patil Sir shared his academic experience in India. He talked on research opportunities

available for Ph.D. candidates in space science in developing materials and other necessities required for space exploration. He also appealed all students to do career in application science and showed readiness to help all students. It was truly an inspiration and wonderful experience for all teachers and students.

The formal function was further continued by distribution of Appreciation Certificate to students and guiding teachers for successfully completing the mini-research projects. The best oral and poster presenters were also felicitated with certificates.

In addition to this, an exhibition of books on theme of 'Woman in Science' and 'International Year of Plant Health' 2020 was arranged by Library. Through this students got introduced with the good collection of books which enhanced their knowledge.

Overall the science day activity enriched the aspiring student scientist and teachers.

#### ❖ **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). The course is of 2 credits and 24 months duration for which undergraduate students (S.Y. B.Sc.) are enrolled after a written test. This course helps in all round development of student's personality. It also enhances logical thinking involved in conduct of Scientific Research as well as it trains student in Event Management, Life skills, Soft skills & Computer skills.

This course had been partially (~50%) completed through offline mode till mid-week of March 2020. Due to 'Lockdown Period' of COVID-19, later all remaining modules were designed and conducted by online means. All resource persons including students took immense efforts in completing time bound assignments in unpredictable situation of lockdown. Some of the Mini research projects of RSP were re-structured and completed by January 2021. Students enjoyed this transition from offline to online conduct of course and appreciated the online modules of 'Heal Your Mind', 'Ecotourism', 'Soft Skills', etc. For this course, final Online-Exam has been scheduled in 2<sup>nd</sup> week of February 2021. The successful students will be felicitated by 'Certificate' on 28<sup>th</sup> February 2021, i.e. National Science Day.

From year 2020-2021 onwards, all modules of Research Scholar Programme (RSP) will be conducted online while mini research projects can be completed in wet/dry-labs as per need of research problem. Thus RSP would present excellent example of Hybrid-Course in future.

#### ❖ **Guidance to Budding Researchers of School**

This year, Dr. Ujjwala Gokhe (Dept. of Physics), Dr. Urmila Kumavat (Dept. of Botany) and Dr. Pralhad Wagh (Dept. of Chemistry) 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 29<sup>th</sup>, 31<sup>st</sup> and 12th January 2021.

**Dr. (Ms.) Urmila Kumavat**

Coordinator,

College-School Complex and Science Square Committee





## Cultural Association



The Cultural Association of VPM's B. N. Bandodkar College of Science, Thane (Autonomous) was established in the year 1969. The association comprises of students who organize activities under the guidance of their cultural coordinator and with the help of the valuable support from their college. These activities provide a platform for the students to exhibit their skills and talents and also help them participate in college as well as inter-college events which eventually help them develop an all-round personality. The annual fest organized by the cultural association is known as 'AAKANKSHA'.

For the academic year 2020-21, Dr. Kiran Pariya guided the committee as the Cultural coordinator. The Cultural Committee was lead by the Higher Authority which included - the Secretary, Mr. Bhupendra Savale Patil; two Joint Secretaries, Ms. Anushree Keni and Mr. Sahil Ghadge; the Treasurer, Ms. Alphy Hari; the Contingent Leader, Ms. Sanchita Walve; and the Assistant Contingent Leader, Ms. Lubdha Waradkar. They together led a team of hardworking and zealous 12 core committee members including the documentation and technical in-charges and 26 volunteers. This team of 2020-21 received great support from their I/C Principal, Dr. Moses Kolet; Former I/C Principal, Prof S Venkatraman and all the college staff.

Inspite of the Corona pandemic that took place, the year turned out to be a glorious one for Cultural Association with considerable efforts from the Cultural team. Cultural Association held various online competitions during the lockdown period under the theme 'Quarantine Tasks' by the permission of their former I/C Principal, Prof S Venkatraman. They conducted around four online competitions which were open for all irrespective of age and gender in the span of 2 months, from May to June. These competitions were conducted all over India to uplift the people all around and encourage them to showcase their talents during the lockdown period. Posters related to the competitions were released on social media sites and each participant was required to send in a video of them showcasing their talent while staying safe at their homes. Sketching, Ramp Walk, Calligraphy and Dance were the four competitions that were conducted. All the participants were judged based on their provided videos and then the results were declared. The events were conducted successfully and received a great response from the people who participated in large numbers and the winners and the participants were provided with E-certificates.

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<b>Quarantine Tasks</b>				
<b>Winners' list</b>				
<b>Sr. No.</b>	<b>Date</b>	<b>Event</b>	<b>Achievements</b>	<b>Name</b>
1.	1 <sup>st</sup> May 2020 – 4 <sup>th</sup> May 2020	Sketching Competition	1 <sup>st</sup> prize	Mr. Hrutik Jadhav
			2 <sup>nd</sup> prize	Ms. Pooja Lohar
			3 <sup>rd</sup> prize	Mr. Tanmay Ghadigaonkar
			Consolation	Ms. Sanika Chavhan
2.	10 <sup>th</sup> May 2020	Ramp Walk Competition	1 <sup>st</sup> prize	Ms. Shaikh Sahiba Azirur Rehman
3.	13 <sup>th</sup> May 2020 – 20 <sup>th</sup> May 2020	Calligraphy Competition	1 <sup>st</sup> prize	Mr. Vishal Achari
			2 <sup>nd</sup> prize	Ms. Shweta Teli
			3 <sup>rd</sup> prize	Ms. Gayatri Varekar
			1 <sup>st</sup> consolation	Ms. Priya Chauhan
			2 <sup>nd</sup> consolation	Mr. Sanjay Parab
4.	13 <sup>th</sup> June 2020 - 25 <sup>th</sup> June 2020	Solo Dance Competition	1 <sup>st</sup> prize	Mr. Ankit Tatkare
			2 <sup>nd</sup> prize	Ms. Shreya Parab
			3 <sup>rd</sup> prize	Ms. Megha Nair
			Consolation	Ms. Mayuri Datkhile
			Best performance	Ms. Gauravi Ahiwale
5.	13 <sup>th</sup> June 2020 - 25 <sup>th</sup> June 2020	Duet Dance Competition	1 <sup>st</sup> prize	Ms. Damini Mahajan & Mr. Prathamesh Mahajan
			2 <sup>nd</sup> prize	Ms. Megha Nair & Ms. Sakshi Pandey

Teacher's day was also celebrated by conducting an online Greeting Card Making Competition and Letter Writing Competition with the theme - #thankateacher. These competitions were also conducted online and the submission date was from 5<sup>th</sup> September to 10<sup>th</sup> September 2020. The results of the competitions were announced on 10<sup>th</sup> September'20. All the winners were rewarded with E-certificates.

## SANYUJA 2020-21

<b>#thankateacher</b>				
<b>Winners' list</b>				
<b>Sr. No.</b>	<b>Date</b>	<b>Event</b>	<b>Achievements</b>	<b>Name</b>
1.	5 <sup>th</sup> – 10 <sup>th</sup> September 2020	Greeting Card Making Competition	1 <sup>st</sup> prize	Ms. Anjali Hooda
			2 <sup>nd</sup> prize	Ms. Swaranjali Shingate
2.	5 <sup>th</sup> – 10 <sup>th</sup> September 2020	Letter Writing Competition	1 <sup>st</sup> prize	Mr. Atul Singh
			2 <sup>nd</sup> prize	Ms. Swaranjali Shingate
			3 <sup>rd</sup> prize	Ms. Aditi Chatterjee

An online webinar titled “Digital Stree Shakti-women’s cyber security” supported by “The Maharashtra State Commission for Women” in collaboration with “Responsible Netism” was also held by the Cultural Committee. It was conducted on 24<sup>th</sup> September 2020. The poster for the webinar and the registration link were released on various social media platforms on 18<sup>th</sup> September 2020. The webinar was held on Google meet and Mr. Unmesh Joshi, the Co-founder of Responsible Netism, Director projects-Ahaan Foundation, was the speaker for the webinar. The webinar focused on topics such as cyber crime against females and the psychological impacts of irresponsible online behavior. The attendees were informed about cyber security and many technical tips for securing their social media platforms to prevent cyber crime. A total of 60 female students attended the webinar and everyone was provided with an e-certificate for attending the webinar.

In the month of October 2020, the Cultural committee conducted an online Rangoli Competition on the auspicious occasion of Navratri with the theme: Navrang Navratri during the Pandemic period. The poster of the competition with proper rules and regulations was released on 20<sup>th</sup> October 2020 across various social media platforms. It was an intercollegiate competition and the submission dates were from 20<sup>th</sup> October to 24<sup>th</sup> October 2020. The result of the competition was announced on 25<sup>th</sup> September 2020. All the winners and the participants were provided with E-certificates.

<b>Navrang Navratri</b>				
<b>Winners' list</b>				
<b>Sr. No.</b>	<b>Date</b>	<b>Event</b>	<b>Achievements</b>	<b>Name</b>
1.	20 <sup>th</sup> – 24 <sup>th</sup> October 2020	Rangoli Competition	1 <sup>st</sup> prize	Mr. Saurabh Zore
			Runner up	Ms. Gayatri Nikam

An online Chhatrapati Shivaji Maharaj Fort Making Competition was also conducted by the committee to celebrate the Diwali festival. The poster for the competition was released on 10<sup>th</sup> November 2020. The competition was open for people of all age groups and the participants had to send videos as entries in which they showcased the forts made by them and explained their significance. The last day for submitting the videos was on 17<sup>th</sup> November 2020. The result was declared on 19<sup>th</sup> November 2020. The winners and the participants were provided with E-certificates.

<b>Chhatrapati Shivaji Maharaj Fort Making Competition</b>		
<b>Winners' list</b>		
<b>Name</b>	<b>Group Name</b>	<b>Address</b>
Mr. Anish Kadam	Matoshree Chayya Mitra Mandal	Matoshree Chayya, Near Rachana-2, Juvekar Marg, Bhandup (East), Mumbai- 400042

An online "Intercollegiate Quiz Competition" was conducted by the Cultural Association on account of "National Consumer's Day" observed on 24<sup>th</sup> December 2020. The competition was held on 24<sup>th</sup> December 2020 at 12:00 pm with the help of Google forms and the participants had a time limit of 25 minutes. The poster for the quiz competition and the registration link were released on various social media platforms on 19<sup>th</sup> December 2020. The registrations for the same were open till 23<sup>rd</sup> December 2020. Students participated in large numbers and 100 registrations were received. After the conduction of the quiz competition, top 3 winners were selected based on the highest scores from those who attempted the quiz. It was a very interesting, fun loving and knowledgeable experience for the students.

<b>National Consumers' Day Quiz Competition</b>		
<b>Winners' List</b>		
<b>NAME</b>	<b>COLLEGE NAME</b>	<b>RANK</b>
Mr. Haresh	N. G. Bedekar College of Commerce	1 <sup>st</sup> Prize
Ms. Sakshi Pisal	B. N. Bandodkar College of Science	2 <sup>nd</sup> Prize
Ms. Nikita Linar	B. N. Bandodkar College of Science	3 <sup>rd</sup> Prize
Mr. Suhas Gosavi	B. N. Bandodkar College of Science	
Mr. Prachet Pandav	B. N. Bandodkar College of Science	



To honour the birth anniversary of renowned Marathi poet Vishnu Vaman Shirwadkar, Marathi Rajya Bhasha Din is celebrated annually on February 27. Hence to celebrate this auspicious day Cultural Committee and Marathi Bhasha Vibhag in association with NSS Unit, NCC Unit, DLLE, WDC, Gymkhana and Yuva Jager organized an event on Marathi Rajya Bhasha Din on 27<sup>th</sup> February 2021. All the Departmental Heads, I/C Principal, Teachers, Degree And Junior College staff members attended the event. The event started at 10:50 am on Google Meet platform. Mr. Sahil Ghadge was the anchor for the event. Former librarian, an avid reader and the author of the famous biography book - Ek Hota Carver, Mrs. Veena Gavankar was present as the guest of honor. Dr. Sudhir Puranik (NSS Director of Mumbai University) also attended this event. A short video made by the Cultural Committee, the teaching and the non-teaching staff presenting the Marathi abhimaan geet was also played during the event. Ms. Samiksha Chavan, core member of the Cultural Committee interviewed Mrs. Veena Gavankar on topics such as her childhood, Student Life, Career, etc. Ma'am also explained her life journey. To create more awareness and explain the importance of Marathi Language among people she encouraged the attendees to use Marathi words instead of English as an alternative. She appealed all the youngsters to read and increase their habit of reading in their day to day lives. Ms. Anushree Keni concluded the event by presenting the vote of thanks. Approximately 100 students attended the event.

Amidst all these external events, the hardworking and ferocious members of the cultural committee did not back down when it came to dedicating their time for the annual college fest -AAKANKSHA.

The annual festival – “AAKANKSHA FEST 2020-21”, was celebrated virtually. The groundwork for the fest began from 25<sup>th</sup> January 2021 which included various online meets to plan, allot and execute the work. The members brainstormed for many days and finally came up with ‘INCREDIBLE INDIA – Padharo Mhare Desh’ as the theme for the year. An amazing brochure was prepared by a volunteer, Mr. Atul Vishwakarma with the help of other committee members. The brochure included the college’s achievements, rules and regulations of all the events along with their registration links, etc. The brochure was released on 15<sup>th</sup> February 2021 across various social media platforms and the registrations were open till 25<sup>th</sup> February 2021. A total of 13 events were organized under three main categories, namely, Performing Arts, Creative Arts and Literary Arts. Each event was allotted an In-charge and a few volunteers to overlook all the work to be executed for that particular event. Days were also virtually celebrated by the committee and college students from 1<sup>st</sup> March 2021 to 3<sup>rd</sup> March 2021. Saree and Tie Day, Traditional Day and Retro Day (Back to the 90’s) were the 3 days that were celebrated. The students were asked to dress up according to that particular day and upload their pictures on their Instagram stories and tag the official page of the Cultural committee. Each Day was celebrated by many students. The entries of all the events were also collected from 1<sup>st</sup> March 2021 to 3<sup>rd</sup> March 2021. The students participated in large numbers and showcased such diversity in their performances and talents. Profound Judges were hired for each of the events and were impressed by the entries received. The results for Performing Arts were announced on 8<sup>th</sup> March 2021 on the official page of the Cultural Committee. Similarly, the results for Creative Arts were announced on 9<sup>th</sup> March

## SANYUJA 2020-21

2021 and the results for Literary Arts were announced on 10<sup>th</sup> March 2021. All the participants were provided with E-certificates. The winners were awarded with E-certificates and are to be provided with medals and trophies on a later date. The Fest came to an end and all the documentation was completed by 11<sup>th</sup> March 2021 under the guidance of their documentation In-charge Ms. Shravya Karkera.

● List of events, event In-charges and Judges :			
SR. NO.	EVENT NAME	EVENT INCHARGE	JUDGE
● Performing Arts			
1.	Singing (संगम सुरों का)	Mr. Racheet Shinde	Mrs. Jyoti Tiwari
2.	Instrumental (बीट पे गीत)	Ms. Priya Tambvekar	Mr. Sohail Ansari
3.	Dance (नृत्यांगना)	Ms. Riddhi Warvatkar	Mrs. Deepti Vora
4.	Mono Act (एकपात्री अभिनम)	Mr. Parth Bhoir	Mr. Prashant Nigade
5.	Stand Up Comedy (हास्य जत्रा)	Ms. Damini Mahajan	
● Creative Arts			
6.	Photography (बार-बार देखो)	Mr. Chirag Kadam	Mr. Avej Shaikh
7.	Sketching (रेखा चित्रण)	Ms. Shubhangi Deshmukh	Mrs. Anita Thanawala
8.	Poster Making (रंगीले इश्तेहार)	Ms. Jaai Malbari	
9.	Mehendi (मेहंदीका)	Ms. Lubdha Waradkar	Komal Gaikwad
10.	Rangoli (रंगों की दास्तान)	Ms. Sanchita Walve	Dr. Charul Yogesh Shah
● Literary Arts			
11.	Essay Writing (कलम से कागज तक)	Ms. Alphy Hari	Capt. Bipin Dhumale
12.	Love Letter Writing (लिखे जो खत तुझे)	Ms. Shravya Karkera	Mr. Anil Athawle
13.	Poem Recitation (काव्यांजलि)	Ms. Gayatri Varekar	Mr. Suryakant Umrajkar

• **Best Core and Best Volunteer :**

<b>Best Core</b>	Ms. Riddhi Warvatkar
	Ms. Samiksha Chavan
<b>Best Volunteer</b>	Ms. Surabhi Singh
	Mr. Atul Vishwakarma

<b>• Winners of Singing Competition :</b>	
<b>NAME</b>	<b>PRIZE</b>
Ms. Sharvari Khandke	1 <sup>st</sup> Prize
Ms. Kheyati Gupta	2 <sup>nd</sup> Prize
Mr. Nachiket Kolhatkar	3 <sup>rd</sup> Prize
Ms. Shilpa Sonawane	Consolation Prize
<b>• Winners of Instrumental Competition:</b>	
<b>NAME</b>	<b>PRIZE</b>
Ms. Aditi Chatterjee	1 <sup>st</sup> Prize
Mr. Hemang Kulkarni	2 <sup>nd</sup> Prize
Mr. Saurabh Zore	Consolation Prize
<b>• Winners of Dance Competition :</b>	
<b>NAME</b>	<b>PRIZE</b>
Ms. Chaitalee Patil	1 <sup>st</sup> Prize
Mr. Ritesh Salunkhe	2 <sup>nd</sup> Prize
Ms. Damini Mahajan	3 <sup>rd</sup> Prize
Ms. Sakshi Shinde	
Ms. Gargi Gupte	Consolation Prize
<b>• Winners of Mono Act Competition:</b>	
<b>NAME</b>	<b>PRIZE</b>
Ms. Diksha Patil	1 <sup>st</sup> Prize
Mr. Deepak Mishra	Consolation Prize
<b>• Winners of Stand Up Comedy Competition:</b>	
<b>NAME</b>	<b>PRIZE</b>
Ms. Shatakshi Jadhav	1 <sup>st</sup> Prize

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### • Winners of Photography Competition:

NAME	PRIZE
Mr. Priyesh Mane	1 <sup>st</sup> Prize
Mr. Shreyash Utekar	2 <sup>nd</sup> Prize
Mr. Vedang Suvarna	3 <sup>rd</sup> Prize
Ms. Tejal Bhoje	Consolation Prize

### • Winners of Sketching Competition:

NAME	PRIZE
Ms. Sanika Chavan	1 <sup>st</sup> Prize
Ms. Chaitalee Patil	2 <sup>nd</sup> Prize
Ms. Prerana Vadre	3 <sup>rd</sup> Prize
Mr. Aditya Yadav	Consolation Prize

### • Winners of Poster Making Competition:

NAME	PRIZE
Mr. Amey Kurankar	1 <sup>st</sup> Prize
Ms. Sanika Chavan	2 <sup>nd</sup> Prize
Mr. Sahil Ghadge	3 <sup>rd</sup> Prize
Ms. Rashmi Khavanekar	Consolation Prize

### • Winners of Mehendi Competition:

NAME	PRIZE
Ms. Gauri Kanse	1 <sup>st</sup> Prize
Ms. Vibhuti Patil	2 <sup>nd</sup> Prize
Ms. Shahana Shaikh	3 <sup>rd</sup> Prize
Ms. Chaitalee Patil	Consolation Prize

### • Winners of Rangoli Competition:

NAME	PRIZES
Ms. Rashmi Khavanekar	1 <sup>st</sup> Prize
Ms. Mansi Salunke	2 <sup>nd</sup> Prize
Ms. Sharvari Khandke	3 <sup>rd</sup> Prize
Ms. Chaitali Ranalkar	Consolation Prize



## SANYUJA 2020-21

● <b>Winners of Essay Writing Competition:</b>		
LANGUAGE	NAME	PRIZE
English	Mr. Amey Kurankar	1 <sup>st</sup> Prize
	Ms. Suchita Shirke	2 <sup>nd</sup> Prize
	Ms. Kusum Chaturbuj	3 <sup>rd</sup> Prize
Marathi	Mr. Pratik Pawar	1 <sup>st</sup> Prize
	Ms. Mansi Salunke	2 <sup>nd</sup> Prize
	Ms. Chaitalee Patil	3 <sup>rd</sup> Prize
Hindi	Ms. Ranjana Yadav	1 <sup>st</sup> Prize

● <b>Winners of Love Letter Writing Competition:</b>	
NAME	PRIZE
Ms. Diksha Patil	1 <sup>st</sup> Prize
Ms. Shatakshi Jadhav	2 <sup>nd</sup> Prize
Mr. Om Pardeshi	3 <sup>rd</sup> Prize
● <b>Winners of Poem Recitation Competition:</b>	
NAME	PRIZE
Mr. Deepak Mishra	1 <sup>st</sup> Prize
Ms. Ashwini Salunkhe	2 <sup>nd</sup> Prize
Ms. Vipra Malandkar	3 <sup>rd</sup> Prize

The cultural association aims to impart higher quality skills among the students, search for the hidden gems, motivate them to achieve new heights and help the college soar high up where no one can stop them!

They all live and abide by their motto.....

AAKANKSHA #UNSTOPPABLE\_NOW

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

# SANYUJA 2020-21



Sketching Competition held during Lockdown.



Teacher's Day Celebration during Lockdown.



Marathi Raj-Bhasha Din celebrated with Veena Gavankar.



Fort Making Competition held during Lockdown.



Rangoli Event held during Lockdown.



Women's Cyber Security Event in collaboration with Maharashtra State Commission of Women.



Calligraphy Event held during Lockdown.



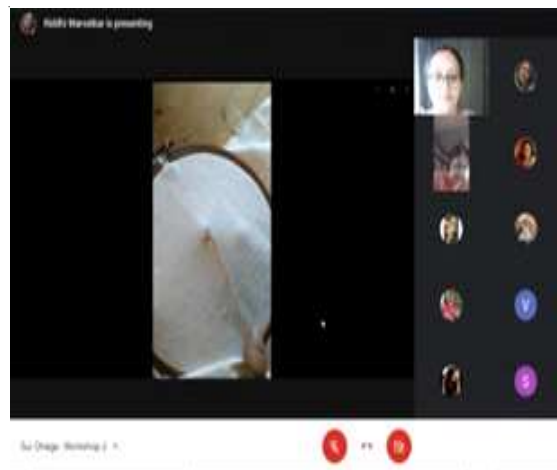
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## Department of Lifelong Learning and Extension

Students enrolled in the DLLE for the academic year 2020-21 will be doing 'CAREER PROJECT' (CP) in which students interview professionals and gain knowledge about their particular field which can help them in choosing career. DLLE and Women Development Cell conducted an entrepreneur skill development workshop 'SUI DHAGA' on 6th and 7th March 2021 on Google Meet platform. In total 91 participants attended the workshop which included teachers and students of different age groups. Our guest Mrs. Swati Joshi gave lessons on basic hand embroidery techniques, which included different types of stitches namely Running stitch, Chain stitch, Fly/Y stitch, Lazy Daisy stitch, French Knot stitch and many more. Overall, it was a wonderful experience and students got hands on training in the area of Art.

In-charge Principal Dr. Moses Kolet Sir, DLLE Coordinator Dr. Vinda Manjramkar and Women Development Cell (WDC) Coordinator Mrs. Minal Wankhede attended the workshop.



**Dr. Vinda Manjramkar**  
Coordinator, Department of Lifelong Learning and Extension



# Vidya Prasarak Mandal, Thane

## Managing Committee 2020-2021



**Standing** : Shri. D. G. Joshi, Member, Shri. Aniruddha Joshi, Member, Dr. Mahesh Bedekar, Member, Smt. A. A. Bapat, Member  
**Sitting** : Shri. J. N. Kayal, Secretary, Shri. U. B. Joshi, Jt. Secretary, Dr. V. V. Bedekar, Chairman, Shri. A. V. Marathe, Member  
Not in the picture Shri T. P. Bendre (Treasurer)



**Dr. Moses Kolet**  
I/C Principal

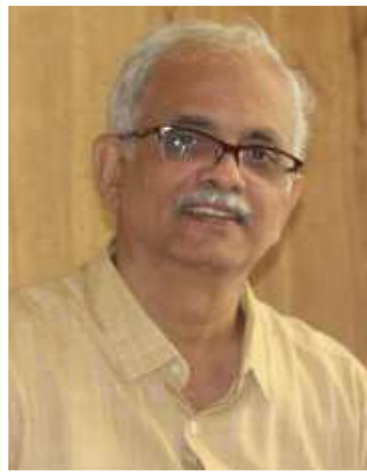
## Our Administration



**Dr. D. R. Ambavadekar**  
Vice-Principal (Degree College)



**Prof. S. G. Bapat**  
Vice-Principal (Degree College)



**Mr. R. V. Lele**  
Vice-Principal (Junior College)



**Mrs. S. S. Dhakane**  
Supervisor (Junior College)



**Mr. C. S. Moynak**  
Office Superintendent



**Mr. S. D. Choudhari**  
Sr. Clerk



# Students Achievements



Shambhavi Joshi



Elocution Prize



Anushree Keni Avishkar  
Second Prize



Pranav Gohil  
Participation in International  
Astronomy & Astrophysics  
Competition 2021.



Pranav Kulkarni



Bhupendra Savale  
Cultural Secretary



Ms Manasi Gadag





# NCC and NSS Activities



Blood donation drive in college Gymkhana



Swachh Bharat Abhiyan at Thane Railway Station



Cowin Vaccination Drive at Jnanadweep through Dr. Bedekar Hospital



Online conference with Defence Minister



Blood donation at Thane Railway station during lockdown



Blood donation drive (in lockdown) at Thane Railway station



Road safety week of Thane Police



Participation in Road Safety week with RTO, Thane



## NCC and NSS Activities



Awareness Drive on Blood Donation



Blood donation drive at Sai Baba Mandir



NCC officer Lt. Bipin Dhumale honored by Group captain GP Cdr, Nilesh Dekhne with DG. Commendation



Road Safety Week

## Achievers in Service of the Nation



Our NCC unit : Winners of Drill Competition CATC 2021



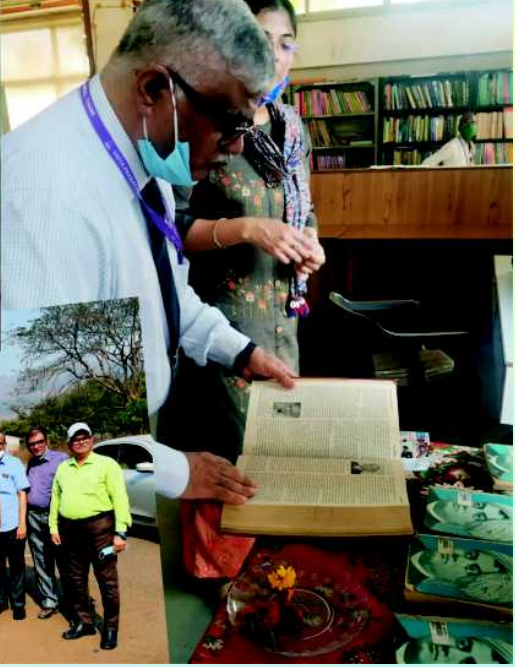
## Independence Day



## Student's Felicitation









## Superannuation of Staff Members



## Student Leadership



CQMS. Omkar K. Khatri  
NCC Secretary 2020-21



Prachi Bhopi  
DLLE Manager



SUO. Ankit G. Yadav  
Rajpath Contingent in  
the Republic Day Camp



JUO. Pratik P. Gaikwad  
Represented Maharashtra  
Directorate in Malakhamb at  
PM Rally Camp 2020



Prathmesh Valse  
NSS Joint Secretary



Rohan Patil  
NSS Joint Secretary



Samiksha Gupta  
NSS Joint Secretary



Siddhesh Chaugule  
NSS Secretary

## Library Committee ग्रंथालय अहवाल

ग्रंथालय विभागातर्फे लॉकडाऊनच्या काळात एम.एस.सी. व पी.एच.डी.च्या विद्यार्थ्यांकरिता संशोधनाला उपयुक्त ठरेल अशा How to use Google Scholar या विषयावर २ वेबिनार ०९ एप्रिल २०२० व १४ एप्रिल २०२० रोजी संपन्न झाले.

ग्रंथालय माहितीशास्त्रातील आधुनिक प्रवाह या विषयावर २९ व ३० एप्रिल २०२० रोजी वेबिनारचे आयोजन केले होते. या वेबिनारचे उदघाटन २९ एप्रिल रोजी सकाळी ११.०० वाजता विद्या प्रसारक मंडळाचे कार्याध्यक्ष डॉ. विजय बेडेकर व यशवंतराव चव्हाण महाराष्ट्र मुक्त विद्यापीठाचे प्रमुख ग्रंथपाल डॉ. मधुकर शेवाळे यांनी केले. महाविद्यालयाचे प्राचार्य प्रा. वेंकटरमण यांनी या वेबिनारचे प्रास्तविक केले. वेबिनारच्या पहिल्या सत्रात डॉ. राजेंद्र कुंभार, विभाग प्रमुख, सावित्रीबाई फुले पुणे विद्यापीठ, पुणे यांनी एकविसाव्या शतकातील ग्रंथपालांना आवश्यक कौशल्य याबाबत समर्पक शब्दात मार्गदर्शन केले. त्यानंतर दुसऱ्या सत्रात श्री. किशोर इंगळे, असिस्टंट जनरल मॅनेजर, टी.सी.एस, मुंबई यांनी उदाहरणदाखल कॉर्पोरेट ग्रंथालयात देण्यात येणाऱ्या माहिती सेवा याबद्दल मार्गदर्शन केले. तिसऱ्या सत्रात डॉ. सुषमा पौडवाल, निवृत्त ग्रंथपाल, एसएनडीटी विद्यापीठ यांनी ग्रंथपालांचे संशोधनातील योगदान याबाबतचे विचार मांडले. वेबिनारचा दुसऱ्या दिवसाची सुरुवात जोशी-बेडेकर महाविद्यालयाचे ग्रंथपाल प्राध्यापक नारायण बारसे यांच्या प्राचीन ग्रंथालय ते आभासी ग्रंथालय या व्याख्यानाने झाली. त्यानंतरच्या सत्रात श्री. प्रल्हाद जाधव, नॉलेज मॅनेजर, खेतान अँड कंपनी यांनी कॉपीराइट, आय पी आर व प्लेगॅरीजम यावर प्रकाश टाकला. त्यानंतरचा अखेरच्या सत्रात डॉ. ज्योति भाबळ, वरिष्ठ सहाय्यक प्राध्यापक, एस.एच.पी.टी. स्कूल ऑफ लायब्ररी सायन्स, एस.एन.डी.टी विद्यापीठ यांनी सायटेशन मॅनेजमेंट विथ फोकस टू झोटोरो याबद्दल चर्चा केली. सौ. कादंबरी मांजरेकर यांनी केलेल्या आभार प्रदर्शनाने या वेबिनारची सांगता झाली. प्राचार्य प्रा. वेंकटरमण यांनी लॉकडाऊन परिस्थितीत ही एक संधी समजून या वेबिनारचे उत्तम आयोजन केले हे आवर्जून नमुद केले. या वेबिनारला ग्रंथालय व माहितीशास्त्राचे १०४ विद्यार्थी उपस्थित होते.

लॉकडाऊनच्या काळात विद्यार्थ्यांना प्रत्यक्ष ग्रंथालयात येणे शक्य नसल्यामुळे विविध दिवसांचे आयोजन ऑनलाईन पद्धतीने करण्यात आले. दरवर्षीप्रमाणे या वर्षी देखील दिनविशेष या सदरामध्ये विविध थोर व्यक्तींच्या जयंत्या साजऱ्या करण्यात आल्या. यामध्ये सावित्रीबाई फुले (३ जानेवारी), स्वामी विवेकानंद (१२ जानेवारी), नेताजी सुभाषचंद्र बोस (२३ जानेवारी), महात्मा गांधी (३० जानेवारी), छत्रपती शिवाजी महाराज (१९ फेब्रुवारी), मराठी भाषा दिवस (२७ फेब्रुवारी), यशवंतराव चव्हाण (१२ मार्च) शहीद दिवस (२३ मार्च), महात्मा ज्योतिबा फुले (११ एप्रिल), स्वातंत्र्यवीर सावरकर (२८ मे), राजश्री शाहू महाराज (२६ जून), अण्णा भाऊ साठे (१८ जुलै), लोकमान्य टिळक (२३ जुलै), डॉ.ए.पी.जे. अब्दुल कलाम (१४ ऑक्टोबर), इंदिरा गांधी (१९ नोव्हेंबर) आदी थोर व्यक्तींवर आधारित माहिती व्हाट्सअपच्या माध्यमातून विद्यार्थ्यांना पाठवण्यात आली.

पर्यावरण विषयक विविध दिवस जसे जागतिक हवामान दिवस (२३ मार्च), जागतिक पर्यावरण दिवस (५ जून), राष्ट्रीय एकता दिवस (३१ ऑक्टोबर) यावर आधारित माहिती व्हाट्सअपच्या माध्यमातून विद्यार्थ्यांना पाठवण्यात आली. मराठी भाषा दिवस (२७ फेब्रुवारी) निमित्ताने ग्रंथ प्रदर्शन आयोजित करण्यात आले होते.

स्वातंत्र्यवीर विनायक दामोदर सावरकरांच्या जयंती निमित्त २८ मे २०२० रोजी ऑनलाईन प्रश्नमंजुषा घेण्यात आली. वाचन प्रेरणा दिनाच्या निमित्ताने १५ ऑक्टोबर २०२० रोजी डॉ.ए.पी.जे.अब्दुल कलाम यांच्या जीवनावर आधारित प्रश्नमंजुषा आयोजित करण्यात आली होती. यामध्ये १५४२ विद्यार्थ्यांनी आपला सहभाग नोंदवला. ३१ ऑक्टोबर २०२० रोजी सरदार

वल्लभभाई पटेल यांची जयंती राष्ट्रीय एकता दिवस म्हणून साजरी करण्यात येते. यावेळी ग्रंथालय विभागातर्फे ऑनलाईन पद्धतीने राष्ट्रीय एकता दिवसाची शपथ घेण्यात आली.

ग्रंथालय विभाग व संशोधन समिती यांच्या संयुक्त विद्यमाने Inquisitive Minds या विषयावर १२ वेबिनारची व्याख्यानमाला संपन्न झाली. ग्रंथालय विभाग व संशोधन समिती यांच्या संयुक्त विद्यमाने "Empowering Young Minds : Building a Research Trajectory" या विषयाची ५ दिवसीय कार्यशाळा २७ ऑक्टोबर २०२० ते ३१ ऑक्टोबर २०२० या कालावधीत संपन्न झाली.

ग्रंथालयात आजमितीला एकूण ३१४३४ पुस्तके पदवी महाविद्यालयाची, ४७२४ कनिष्ठ महाविद्यालयाची, ३२१४ पुस्तके पुस्तक पेढी योजने अंतर्गत अशी एकूण ३९३७२ पुस्तके उपलब्ध आहेत. तसेच ३६ राष्ट्रीय व ६ आंतरराष्ट्रीय वैज्ञानिक नियतकालिके आणि ३२ मासिके देखील अवांतर वाचकासाठी उपलब्ध आहेत. २०१९-२०२० या शैक्षणिक वर्षात १३९४ पुस्तके खरेदी केली.

यशवंतराव चव्हाण महाराष्ट्र मुक्त विद्यापीठाच्या २०२०-२०२१ वर्षातील ग्रंथालय व माहितीशास्त्र पदवी अभ्यासक्रमाला (B.L.I.Sc) २८, ग्रंथालय व माहितीशास्त्र निष्णांत अभ्यासक्रमाला (M.L.I.Sc) ४० आणि वृत्तपत्र आणि जनसंज्ञापन पदविका अभ्यासक्रमाला १८ विद्यार्थ्यांनी प्रवेश घेतला.

**Mrs. Kadambari Manjrekar**  
Librarian



# NCC

## Introduction

Our ASC THANE NCC Army boys unit established in the year 1965 in the B.N. Bandodkar College of Science. Around 52 Cadets Enrolled in our unit every year. ASC THANE unit comes under the 1 MAHARASHTRA BATTALION in Mumbai 'B' group in Maharashtra Directorate. Uptil now our 25 Cadets from ASC THANE unit represented Maharashtra Directorate in the National Level from various camps. Apart from that one of the most precious moment for the unit is our Cadet Gangaprasad Thapa and Cadet Kunal singhvi is commissioned from OFFICERS TRAINING ACADEMY as a Lieutenant.

## Administrative Front

- CDT **Anikt Gangasagar Yadav** was appointed as **Senior Under Officer**.
- CDT **Pratik Gaikwad** and CDT **Pratik Pawar** were appointed as **Junior Under Officers**.
- CDT **Vaibhav Buchudewas** was appointed as **Company Sergeant Master**.
- CDT **Omkar khatri** was appointed as **Company Quarter Master Sergeant** of the unit.

## Enrollment Drive

Enrollment of the cadets commenced in the July 2019. 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, a lied 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 of our Cadets participated in the pre G.V MAVLANKAR which was held in MUMBAI in March 2021.
- 2 of our Cadets participat in TRACKING Camp
- 1 of your Cadet is selected for YOUTH EXCHANGE PROGRAM form MUMBAI B group in February 2021.

### Camps

- **CATC** camp of **B** set conducted in **Jan2 021** at Thane college.
- **CATC** camp of **C** set conducted in **FEB 2021** at Kirti college.

### Participation in other Activities

- Our cadets took a part in International Yoga Day. The program was held online due to the pandemic of COVID19 on 21st June 2020
- Our Cadets also took a part in Tree Plantation drive held individually at every cadets' nearby area so that the proper safety measure should be taken in consideration on the occasion of World Environment Day.
- Our cadet also took part in the cycle rally event to spread awareness regarding the road safety on 14Feb 2021.
- On the occasional of Shahid diwas we have conducted the essay writing competition on 23 March 2021, our 20 cadets took active participation in this activity.
- No-smoking day was also took under consideration with the collaboration of B.N Bandodkar college of science NSS unit on 11 March 2021, this activity was conducted online as on webinar to create awareness.
- Blood Donation at Sai BABA mandir at vartaknagar on 3march 2021 with the collaboration of B.N Bandodkar college of science NSS unit,we collected around 35 bottle of blood at that campaign.
- Our cadet of unit ASC THANE had also participate in the fit Indiacyclothon event in their own locality and also motivate the local youth to be fit physical and also mentally.

### Noteworthy Achievements

1. MAH BN for B Certificate cadets, in the camp a Drill competition was organised for all the Company/ Unit Cadets. All total all the 9 colleges has participated in the competition in which the ASC Thane Unit had got up the first position by scoring more points than the other colleges.
2. A CATC Camp was also been conducted for the 'C' Certificate Cadets in the month of February 2021 by 1 MAH BN, during the camp 3 competitions were been organized by the 1 MAH BN. The name of the events were Drill Competition, Weapon Training Competition and Best Speaker Competition, in all the three Competitions ASC Thane Unit had achieved the prices. The ranking are as follows:

Speaker Competition, in all the three Competitions ASC Thane Unit had achieved the prices. The ranking are as follows:

In drill Competition 3<sup>rd</sup> Position

In Weapon Training Competition 3<sup>rd</sup> Position

And in Best Speaker Competition 3<sup>rd</sup> Position (In Best Speaker Competition JUO Pratik Pawar got the third price)

3. Lt. Bipin Dhumale, ANO of ASC Thane Unit was awarded by Director General NCC Commendation Card in the year 2020.
4. Sepoy Abhijeet Basargekar (ex-cadet of our unit) had completed his Army advance training in the month of October 2020 and now he is been serving in MLI Regiment.
5. Mukund Nigade (ex-cadet of our unit) had completed his advance training of SSR in chilka and now he is been serving as a sailor in Indian Navy.
6. Our most of the cadets are also there in services like Army, Navy, Air force and Police.



**Lt. B. S. Dhumale**  
NCC, ANO





## National Service Scheme

### Annual Report of NSS Unit 2020-2021

The National Service Scheme (N.S.S) is an Indian government sponsored public service programme conducted by the Department of Youth Affairs and Sports of Government of India. Popularly known as NSS, the scheme was launched in Mahatma Gandhiji's Centenary year, 1969. The cardinal principle of NSS is that it is organized by students themselves, and both students and teachers through their combined participation in community service, get a sense of involvement in the task of nation building.

NSS was initiated in VPM's B. N. Bandodkar College of Science in the year 1972 with 30 NSS Volunteers. Presently our NSS Unit consists of 300 Volunteers enrolled and three Programme Officers Dr. Ujjwala Gokhe, Prof. Akanksha Shinde and Dr. Pralhad Wagh for the year 2020-2021. Prof. B.K Mandlekar, Dr. Kiran Pariya, Dr. Ajit Bhumkar, Prof. Vicky Patil and Prof. Komal Gaikwad are the members of NSS Advisory Committee of our College.

#### **NSS Core-Committee 2020-2021**

Mr. Siddhesh Dilip Chaugule was selected as NSS Secretary. Mr. Rohan Jaywant Patil, Miss. Samiksha Dharmendra Gupta, Mr. Prathmesh Jaysing Valse were selected as NSS Joint Secretaries. Miss. Disha Deepak Shirwadkar was a Report In-charge. Miss. Simran Pradeep Jaiswal, Mr. Prathamesh Anil Sale were Treasurers. Miss. Sneha Kripashankar Tiwari, Miss. Priti Kabir Patil, Mr. Prabhav Shrikant Moholkar, Miss. Siddhi Dagadu Patil, Miss. Jui Santosh Arolkar were Core Head. Ms. Grishma Vijay Mane, Mr. Mahesh Ashok Jadhav, Miss. Akanksha Sangram Rajebhosale, Mr. Aniket Bhaskar Kharmate, Mr. Heramb Deepak Patil, Mr. Venugopal Bhumeshwar Kundaram, Mr. Shubham Vijay Wadkar, Mr. Vedant Pradip Jadhav were Core Members.

Following are the activities of our NSS unit for the year 2020-2021

#### **Camps Attended: District/University/State Level**

% Rishabh Santosh Singh and Shruti Machindra Patil attended the 20 Hour Yoga Intern Training Program which was organised by Kaivalyadhama (Health and Yoga Research Centre, Branch Lonavala) through Online Mode on 15 June -22 June, 2020.

#### **Events Organised/Attended:**

- **JANTA CURFEW PLEDGE** which was organised by **Ministry of Electronics & Information Technology (Government of India)** was held on 23rd March 2020 in order to create awareness among people regarding Covid-19 Pandemic Situation, 50 volunteers among which 25 girls and 25 boys participated in this Online Pledge.
- **STAY AT HOME SAVE LIVES PLEDGE** which was organised by **Ministry of Electronics & Information Technology (Government of India)** was held on 30th



March 2020, in order to spread awareness about Lockdown and its Benefits, 40 volunteers among which 15 boys and 25 girls participated in this Online Pledge.

- **IGOT ONLINE TRAINING PROGRAMME** which was organised by **Government of India** was held on 17th April 2020, it was an University level program in order to train volunteers to prepare masks and how to protect ourselves and our family from this Covid-19 Virus. Total 20 Volunteers, among which 12 boys and 8 girls participated.
- **KAVYA SANGRAM (Poem Competition)** on the topic of QUARANTINE was organised by **NSS UNIT of VPM's B. N. Bandodkar College of Science** on 12<sup>th</sup> April 2020, this competition was arranged for our College students for expressing their views about Quarantine. Total 15 participants, among which 7 boys and 8 girls participated through Online Mode.
- **MUQABLA-E-SHAYARI** (Shayari Competition) on topic CORONA-SE-JUNG was organised by **NSS UNIT of VPM's B. N. Bandodkar College of Science** on 15th April 2020, this competition was arranged for our College students for expressing their views on Corona Situation. Total 12 participants, among which 8 boys and 4 girls were present participated in this Online Mode.
- **RANG-DE-BASANTI** (Poster Competition) on topic of LOCKDOWN PROFITS ON ENVIRONMENT was organised online by **NSS UNIT of VPM's B. N. Bandodkar College of Science** on 20th April 2020, this competition was arranged for our College students in order to cope up negativity among people and bring positive vibes. Total 10 participants participated, among which 4 were boys and 6 were girls.
- **CORONA AWARENESS VIDEO** was created by **NSS UNIT of B. N. Bandodkar College of Science** on 21st March 2020 in order to aware people about Corona Virus and how to fight against it and posted it on NSS Instagram page named as NSS unit of Bandodkar College. 15 Volunteers among which 6 boy volunteers and 9 girl Volunteers participated in it.
- In order to inculcate the importance of Yoga in our day to day lives, **NSS UNIT of VPM's B. N. Bandodkar College of Science** organised **INTERNATIONAL YOGA DAY** on 21st June 2020, it was celebrated by practicing some Yogasana by virtual mode. 50 volunteers among which 35 boys and 15 girls Volunteers participated in this event.
- In order to commemorate the Birth Anniversary of **LOKMANYA TILAK AND ANNABHAU SATHE, University of Mumbai** Organised an Online Event on 1<sup>st</sup> August 2020. 52 volunteers, among which 24 boys and 38 girls participated in this event.
- **ORGAN DONATION AWARENESS WEBINAR** was organised by **University of Mumbai** on 13<sup>th</sup> August 2020 in order to aware Volunteers regarding the importance of Organ Donation. 15 volunteers among which 6 boys and 9 girls Volunteers

participated in this event.

- **INDEPENDENCE DAY** was celebrated through Online Mode by **NSS UNIT OF VPM's B. N. Bandodkar College of Science** on 15th August 2020, by hosting our National Flag Virtually. 30 Volunteers among which 17 boys and 13 girls, actively participated in this Virtual Event.
- In order to celebrate **HINDI LANGUAGE DAY**, **NSS UNIT of VPM's B. N. Bandodkar College of Science** organised an Online Event on 14<sup>th</sup> September 2020, explaining the importance of the Hindi Language. 50 Volunteers among which 27 boys and 23 girls Volunteers participated in this event.
- **NSS Unit Of VPM's B. N. Bandodkar College of Science** celebrated **NSS FOUNDATION DAY** on 24<sup>th</sup> September 2020 through Online Mode in the presence of Honorable Chief Guest **Mr. Bhupendra Mishra** . 80 Volunteers among which 35 male and 45 female Volunteers attended the event.
- **A CLEANLINESS DRIVE** was undertaken by **NSS UNIT of VPM's B. N. Bandodkar College of Science** on 2<sup>nd</sup> October 2020 in which volunteers created awareness among the people living nearby to their houses by cleaning the residential area. 25 Volunteers among which 11 boys and 14 girls participated in this event.
- **University of Mumbai** organised an Online Event on 2<sup>nd</sup> October 2020, named **BHAJAN SANDHYA** in order to celebrate the Birth Anniversary of Mahatma Gandhi. 40 Volunteers among which 25 boys and 15 girl Volunteers attended this event.
- In order to make students aware about the National Service Scheme, **NSS UNIT of VPM's B. N. Bandodkar College of Science** organised a **FYNSS ORIENTATION** which was conducted under the guidance of **Prof. Dr. Ajit Bhumkar and Prof. Vicky Patil** on 9<sup>th</sup> October 2020 by Virtual Mode. 100 Volunteers participated in this event.
- In order to make students aware about National Service Scheme, **NSS UNIT of VPM's B. N. Bandodkar College of Science** organised a **FYNSS ORIENTATION** which was conducted under the guidance of **Prof. Dr. Ajit Bhumkar and Prof. Vicky Patil** on 10<sup>th</sup> October 2020 by Virtual Mode. 101 Volunteers participated in this event.
- **A JAN ANDOLAN PLEDGE FOR COVID-19** which was organised on virtual mode by **Government of India** was held on 11<sup>th</sup> October 2020 in order to spread awareness about Covid Situation. 50 Volunteers among which 25 girl and 25 boy volunteers participated in this event.
- In order to spread awareness on the importance of Handwashing, **University of Mumbai** organised an online webinar on **GLOBAL HANDWASHING DAY** on 13<sup>th</sup> October 2020. 25 Volunteers among which 17 boys and 8 girl Volunteers attended this event.
- **A SPIT FREE INDIA PLEDGE** which was organised by **ACF (Alamelu Charitable**

**Foundation) Supported by TATA TRUSTS**, was held online on 14<sup>th</sup> October 2020

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order to create awareness among people. 51 Volunteers among which 31 boys and 20 girl Volunteers participated in this pledge.

- In order to spread awareness among citizens, **NSS UNIT of VPM's B. N. Bandodkar College of Science** organised a 9 Days Event on the occasion of **NAVRATRI**, which was held from 17<sup>th</sup> October 2020 to 25<sup>th</sup> October 2020 on virtual mode.
  - a. **Day 1** (17th October 2020): **POLLUTION QUIZ**: A Quiz on the topic of Pollution was organised in order to spread awareness among people. 80 Volunteers among which 45 boys and 35 girls participated in this event.
  - b. **Day 2** (18th October 2020): **A LETTER WRITING COMPETITION** on the topic of "Letter to Corona Warrior's "was organised in order to spread awareness about the work of Covid Warriors. 15 volunteers among which 8 boys and 7 girls participated in this event.
  - c. **Day 3** (19th October 2020): **YOGA DAY** was organised in order to inculcate the importance of Yoga among Volunteers. 10 Volunteers among which 5boys and 5 girls participated in the event.
  - d. **Day 4** (20th October 2020): **NO RAPE CAMPAIGN** was organised in order to express views. 15 Volunteers among which 8 boys and 7 girls participated.
  - e. **Day 5** (21st October 2020) : **MEDITATION DAY** was organised in order to inculcate a habit of meditation in Volunteers. 20 Volunteers among which 8 boys and 12 girls participated.
  - f. **Day 6** (22nd October 2020): **SPREAD A SMILE Event** was organised to spread their short stories in which they helped someone. 5 Volunteers among which 2 boys and 3 girls participated in this event.
  - g. **Day 7** (23rd October 2020): An event named **KITCHEN GARDEN** was organised in order to plant small trees. 15 Volunteers among which 7 boys and 8 girls participated in it.
  - h. **Day 8** (24th October 2020): **FEEDING STRAY ANIMALS** was organised in which Volunteers feed Stray Animals. 10 Volunteers among which 6 girls and 4 boys participated.
  - i. **Day 9** (25th October 2020): **A POEM WRITING COMPETITION** was organised on the topic of BETI BACHAO BETI PADA0 in which Volunteers spread awareness among people. 10 Volunteers among which 7 boys and 3 girls participated in it.
- Volunteers of **NSS UNIT of VPM's B. N. Bandodkar College of Science**, Volunteerd for C.A Examination which was done from 21st November to 14th December in our College Campus. 25 Volunteers among which 15 boys and 10 girls volunteered.

- **NSS UNIT of VPM's B. N. Bandodkar College of Science** celebrated **Constitution Day** on 26th November 2020 in the presence of Honorable Chief Guest **Advocate Vinod Wagh (Prof. in TMC Law College)** through Online Mode. 65 Volunteers among which 35 boys and 30 girls attended this event.
- **University of Mumbai** Organised an Online Event on 26<sup>th</sup> November 2020 named as **Dr. BABASAHEB AMBEDKAR JAYANTI** in order to celebrate the Birth Anniversary of Dr. Babasaheb Ambedkar. Total 40 Volunteers among which 12 boys and 28 girls attended this event.
- **NSS UNIT of VPM's B. N. Bandodkar College of Science** celebrated **NATIONAL YOUTH DAY** on 12th January 2021 in the presence of Honorable Chief Guest **Mr. Mahesh Sandipan Gaikwad (Founder of Ramakrishna Vivekananda Kalyan Foundation)** through Online Mode. Total 64 Volunteers among which 40 boys and 24 girls attended this event.
- **NSS GARDEN CLEANING** was done from 22nd January 2021 to 24th January 2021 by **NSS UNIT of VPM's B. N. Bandodkar College of Science**. Total 20 Volunteers among which 15 boys and 5 girls participated in this activity.
- On the occasion of **PARAKRAM DIVAS** an Online Quiz was organised by **NSS UNIT of VPM's B. N. Bandodkar College of Science** on 23rd January 2021. Total 206 volunteers among which 104 boys and 102 girls participated in this Quiz.
- **PARAKRAM DIVAS ONLINE WEBINAR** was organised jointly by **NSS and NCC UNIT** on 23rd January 2021 in the presence of Honorable Chief Guest **Mr. Anand Sitaram Patil (Senior Police Officer) and Guest Mr. Sailesh Balakrishna Kondaskar (MA)**. Total 48 volunteers among which 33 boys and 15 girls attended the event.
- On 26<sup>th</sup> January 2021, **REPUBLIC DAY** was celebrated through Offline and online Mode. Total 10 Volunteers of **NSS UNIT of VPM's B. N. Bandodkar College of Science** among which 7 boys and 3 girls, along with our Programme Officers attended this event in our College Campus.
- **NSS UNIT of VPM's B. N. Bandodkar College of Science** organised online Letter Writing Competition on the occasion of **MARTYR'S DAY** on 30th January 2021. Total 10 Volunteers among which 6 boys and 4 girl Volunteers participated.
- **University of Mumbai** organised webinar on an **E-Waste Collection Drive** on the occasion of Birth Anniversary of Balasaheb Thackeray which commenced on 23rd January 2021 till 31st January. On 1<sup>st</sup> February 2021 webinar on **E-WASTE AND DRY WASTE COLLECTION** was held. Total 60 Volunteers among which 25 boys and 35 girls attended this event.
- **MAJHI VASUNDHARA PLEDGE** which was organised by the **Environment & Climate change Department (Government of India)** was held online on 2nd



February 2021 in order to plant more trees and save electricity. Total 70 Volunteers among which 40 boys and 30 girls participated.

- **NSS UNIT of VPM's B. N. Bandodkar College of Science** celebrated **SAFER INTERNET DAY** in order to spread awareness about Cyber Security in the presence of Honorable Chief Guests **Mrs. Snehal Adsule (PSI from Crime Branch Thane)** and **Guest Mr. Sujit Tayade** on 9<sup>th</sup> February 2021. Total 64 Volunteers among which 30 boys and 34 girls attended this Online event.
- **NSS GARDEN CLEANING** was done by Volunteers of **NSS UNIT of VPM's B. N. Bandodkar College of Science** on 12<sup>th</sup> February 2021. Total 5 Volunteers among which 4 boys and 1 girl participated in this activity.
- **University of Mumbai** Organised an Online Event on the occasion of **Birth Anniversary of CHHATRAPATI SHIVAJI MAHARAJ** on 19<sup>th</sup> February 2021. Total 1 Volunteer participated in this event.
- On 19<sup>th</sup> February 2021, **CHHATRAPATI SHIVAJI MAHARAJ JAYANTI** was celebrated by **NSS UNIT of VPM's B. N. Bandodkar College of Science** through Online Mode. Total 57 Volunteers among which 25 boys and 32 girls Volunteers attended the event.
- **MARATHI LANGUAGE DAY** was celebrated on 27<sup>th</sup> February 2021 which was organised by **Cultural Committee and Marathi Language Department in collaboration with NSS UNIT, NCC UNIT, DLLE, WDC, and Yuva Jagar of VPM's B. N. Bandodkar College of Science** in the presence of Honourable Chief Guest **Veena Gavankar** through Online Mode in order to spread awareness about the importance of Marathi Language. Total 50 Volunteers among which 25 girls and 25 boys Volunteers attended the event.
- **University of Mumbai** Organised an Online Webinar on topic of **WOMEN IN LEADERSHIP-DEFENCE** on 1<sup>st</sup> March 2021. It was attended by 2 girl Volunteers from our NSS Unit of **VPM's B. N. Bandodkar College of Science**.
- In order to make awareness about wildlife and its conservation, **NSS UNIT of VPM's B. N. Bandodkar College of Science** organised webinar on **A WORLD WILDLIFE DAY**, 3<sup>rd</sup> March 2021. Total 80 Volunteers among which 40 girl and 40 boy volunteers attended the event.
- **A BLOOD DONATION CAMP** which was organised by **NSS UNIT of VPM's B. N. Bandodkar College of Science in collaboration with NCC UNIT, Lions Club of Millennium and Nair Hospital** in Vartak Nagar, Sai Baba Temple on 4<sup>th</sup> March at 10am to 3pm. Total 55 Volunteers among which 22 boys and 33 girls participated in this activity.

**ACHIEVEMENTS:**

<b>Sr. No.</b>	<b>Name of Volunteer</b>	<b>PROGRAM</b>	<b>LEVEL</b>	<b>COMPETITION</b>	<b>AWARD</b>
1.	Sahil Sukhdev Ghadge (SYBSc. Botany-Zoology Department).	NSS UNIT of VPM'S R.Z Shah College of Science, Arts and Commerce, Mulund organised AAROHAN FEST -04 <sup>th</sup> March 2021.	Intercollegiate	Poster making (Theme "Life During Lockdown Digital India")	First prize: (Theme "Life During Lockdown")
2.	Mansi Chandrakant Kamble (FYBSc. Biotechnology Department).	NSS UNIT of VPM'S R. Z Shah College of Arts, Science and Commerce, Mulund organised AAROHAN FEST - 04 <sup>th</sup> March 2021.	Intercollegiate	Solo Singing (Patriotic song or Folk song)	Second prize: (Patriotic Song named "Teri Mitti" from Movie Kesari)
3.	Vibhuti Jitendra Patil (FYBSC,s Microbiology Department)	R. A. PODAR College (Autonomous) of Commerce and Economics named UTTUNG 2020- 2021 was held on 26 and 27 March 2021	Intercollegiate	A Mandala Art Competition theme named "The dawn in students Life"	Third prize (The scenario in which a brush, Geometric Shapes and Kuir with a Girl was present.)

## NSS POs with Volunteers



**Dr. Ujwala Gokhe, Prof. Akanksha Shinde and Dr. Pralhad Wagh**  
NSS Programme Officers



## Research Committee Report 2020-21

The research committee 2020–2021 was restructured with minor changes in the flagship. The term started with teaching online and work from home culture. As we got used to the 'new normal', the Research committee started quite early during the lockdown period pandemic to have a research dialogue with teachers and students all over the country. A webinar series "Inquisitive mind" 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. An inquisitive mind is the one that questions, a mind that is curious and pursues knowledge. Probing the mind moves at a tangent that leads to discovery and inventions. In the webinar series "Inquisitive mind" topics relevant and applicable to research students, teachers and research guides have been included.

The first Webinar of the series was arranged on 14th May 2020 on the topic "Mendeley: A Reference management tool" and the second Webinar of the series was arranged on 23<sup>rd</sup> May 2020 on the topic "Google Scholar". The resource person Mrs. Kadambari Hemant Manjrekar, Librarian, VPM's B.N. Bandodkar College of Science, Thane, reiterated that Mendeley and Google scholar serve as a useful tool for researchers. These tools help the researcher to get free scholarly articles and they help in Literature surveys. The sixth Webinar of the series was arranged on 20th June 2020 on the topic "National Digital Library of India (NDLI): A useful Source of Information" also by Mrs. Kadambari.

The third Webinar of the series was arranged on 1st June 2020 on the topic "An Introduction to ORCID" by Dr. S.D. Rathod, Head, Dept of Zoology, VPM's B.N. Bandodkar College of Science, Thane. ORCID is an open, not-for-profit organization run by and for the research community. The fourth Webinar of the series was arranged on 6<sup>th</sup> June 2020 on the topic "The Patenting Process" by Mr. Arun Kumar Yadav, General Manager, VIP Industries, Nashik. Mr. Yadav focused on different aspects of the patenting process.

The fifth Webinar of the series was arranged on 13<sup>th</sup> June 2020 on the topic "Understanding Journal Indexing and Citation Database" by Dr. Rohini Mandhare, Asst. Professor, Dept of Chemistry, VPM's B.N. Bandodkar College of Science, Thane. Dr. Rohini gave an in-depth knowledge of Scopus and its hands-on. The eighth Webinar of the series "Inquisitive mind" was arranged on 4<sup>th</sup> July 2020 on the topic "A new way to search in the Web of Science" by Dr. Rohini Mandhare. In this webinar Dr. Rohini Mandhare, the resource person for the session explained different products of the web of science. She explained, to find free, user friendly and at the same time authenticate websites for publishing research and getting citation databases.

The seventh Webinar of the series was arranged on 26th June 2020 on the topic "Basic Understanding and applications of Drawing Softwares" by Dr. Sandeep Kahandal, Asst Professor, Dept. of Chemistry, VPM's B. N. Bandodkar College of Science, Thane. Dr. Sandeep's session included a general introduction about various drawing softwares. The Ninth Webinar of the series was conducted on 11th July 2020 Saturday. It was on the



topic “Research misconduct”. The resource person was Dr. Moitreyee Saha, Head, Department of Botany VPM’s B.N. Bandodkar College of Science, Thane. Dr. Moitreyee Saha elaborated the importance of research integrity and what constitutes research misconduct and how every researcher should avoid it.

The Tenth Webinar of the series was conducted on 29th July, 2020. Saturday. For the webinar titled “Selection of Journals for Research Paper Publication”, an expert Dr. Prabhakar Dongre, Head and Professor of Biophysics Department (University of Mumbai) was invited as a resource person. Dr. Vinda Manjramkar, Associate Professor, Dept. of Zoology, VPM’s B.N. Bandodkar College of Science, Thane, University of Mumbai was the resource person for eleventh webinar of the series ‘Inquisitive minds’ conducted on 5th August, 2020. About 70 participants from all over India took part in a webinar titled “Interdisciplinary Approach in Research (Change in MindSet)”. Dr. Vinda Manjramkar also published a research paper titled “Domestication of Rice : Varieties and Utility” in the journal J-BNB (ISSN2454-2776) vol. 2020.

A webinar titled ‘Funding Opportunities for Research for Undergraduate and Postgraduate students’ was organized on 8th August, 2020. An expert was invited as a resource person for the said webinar, Dr. P. Hemlatha Reddy, Former Principal, Sri Venkateswara College, Delhi University. She shared her views about the basic requirements needed for a Ph.D. and research position available. She also mentioned how one can apply for funding through attempting competitive exams of various funding agencies, entry through projects sanctioned to PIs, through independent fellowships from Universities, independent fellowship from private labs etc. She mentioned various government funding agencies like CSIR, ICMR. DBT, UGC, ICAR, ICSSR and ICHR.

Research Committee and Department of Library of VPM’S B. N. Bandodkar College of Science, Thane organized a 5 days’ workshop on ‘Empowering Young Minds : Building a research trajectory’ during the lockdown period. The workshop focused on igniting the minds of the students for doing research and to learn new things. The first Webinar was arranged on 27th October 2020 on the topic “Art of Presentation” by C.A. Kauser Meherali. This session helped the participants to build confidence while presenting their presentation, how their actions should be, how to present and interact with your audience simultaneously. The second workshop of the series was arranged on 28 October 2020 on the topic “ANUBHAV” by Dr. Ushavati Shetty, Vice Principal Poddar Brio International School, (CBSE). The main aim for the session by the speaker was to make students aware about various issues that are harming our mother earth and to do research for protecting our planet. The third Webinar was arranged on 29th October 2020 on the topic “Open Access resources in science” by Mrs. Kadambari Manjarekar Librarian, VPM’s B.N. Bandodkar College of Science, Thane. It was a webinar based on open access resources for students and researchers. She also explained about the impact of open access resources. The 4th webinar was arranged on 30<sup>th</sup> October 2020 on the topic “Research Integrity” by Dr. Moitreyee Saha. She explained the principles of research integrity such as Reliability, Honesty, Respect, Accountability and their values that make a huge difference in research

integrity. The fifth day of Webinar was arranged on 31st October 2020 on the topic “Research : A journey from paradigm to presentation by Moses Kolet Sir, I/C Principal, VPM’s B.N. Bandodkar College of Science. It was a Webinar on how a researcher should make a complete presentation of their research and how to present it.

The research committee includes highly qualified, motivated and talented minds who have made steady progress in various aspects of research.

Dr. Poonam Kurve presented a poster titled, “Macrofaunal diversity of inter-tidal zone at Akshi coast, Alibaug, India” in the World Conference on Marine Biodiversity 2020 organized by **University of Auckland, New Zealand** from 14th to 16th December 2020. She reviewed a Research Paper for Springer journal. Dr. Poonam Kurve wrote an article on Karnala Bird Sanctuary for Marathi Vishwakosh. Published a research paper titled, “Nesting site studies of White-bellied Sea Eagle (*Haliaeetus leucogaster* Gmelin, 1788) along Konkan Coast, Dist. Ratnagiri, M. S., India” has been published in Journal of Ecology, Environment and Conservation (Vol 27: 2021). Dr. Kurve was sanctioned a grant of Rs.50,000/- by University of Mumbai (dated 17 March 2020), for the research project titled, “Evaluation of Pollution indicator parameters of Kamwari River and its Estuary along Bhiwandi, (M.S.), India”.

The Research Scholar Programme had started in the academic year 2014-2015 for the students of VPM’s B.N. Bandodkar College of Science, Thane. It is a Certificate course related to Research methodology. This course had been partially (~50%) completed through offline mode till mid-week of March 2020. Then due to ‘Lockdown Period’ of COVID-19, later all remaining modules were designed and conducted by online means. All resource persons including students took immense efforts in completing time bound assignments in unpredictable situations of lockdown. Some of the Mini research projects of RSP were re-structured and completed by January 2021. Students enjoyed this transition from offline to online conduct of course and appreciated the online modules of ‘Heal Your Mind’, ‘Ecotourism’, ‘Soft Skills’, etc. From 2020-2021 onwards, all modules of Research Scholar Programme (RSP) will be conducted online while mini research projects can be completed in wet/dry-labs as per need of research problem. Thus, RSP would present an excellent example of Hybrid-Course in future.

This year, Dr. Ujjwala Gokhe (Dept. of Physics), Dr. Urmila Kumavat (Dept. of Botany) and Dr. Pralhad Wagh (Dept. of Chemistry) gave their expertise as the evaluators to candidates of 6th Std. and 9th Std. who qualified for State Level and Thane District Level National Children’s Science Congress. It was held Online on 29<sup>th</sup>, 31<sup>st</sup> and 12<sup>th</sup> January 2021 a step to guide the budding researchers from various schools.

Dr. Rohini Yogesh Mandhare completed a CSIR - Summer Research Program (CSIR-SRTP) 2020 online June to August, 2020 coordinated by CSIR-NEIST, Jorhat.

Dr. Anita Goswami-Giri delivered a lecture titled ‘Corona Outbreak: Chemistry, Immunity And Approaches’ in International E-Conference on “Strategies and Challenges in Higher Education during COVID-19 Lockdown Period in India with reference to World” Organized

By Government of Maharashtra, Government Vidarbha Institute of Science and Humanities, Amravati, Maharashtra - 444 604 India Day 03 (17th May, 2020). Dr. Anita Goswami-Giri was granted patent 'Measurement of potential and chemical kinetics of lantadene by using immobilized enzyme on 28th August 2020 and patent published on 'Ayurvedic Proprietary medicine for treatment of severe acute respiratory syndrome coronavirus-2 (SARS-CoV-2) – 202021048992' dated 10-12-2020. She published two books Practical in Organic Chemistry for M.Sc. II (Second Edition) 2019-20 and Laboratory Handbook for Drugs and Dyes (T. Y. B.Sc.) Third Edition 2019-20. A paper was published by S.S. Meshram, A. S. Goswami-Giri, U. B. Tumberphale and P.G. Gawali (April 2020) titled, "Dielectric behaviour of allyl Amine (AA) and 2- methoxy Ethanol (2-ME) at 9.85GhZ Microwave frequency" in International journal of Multidisciplinary educational Research Vol 9 issue 4(6). Dr. Anita Goswami-Giri was granted a Minor Research Grant project 2019-20 (sanctioned by University of Mumbai) dated 17 March 2020 for 25000/- Gunvanti Negi was awarded the degree of Ph. D on 27/08/19 for her work on 'Development of graphite coated electrodes for the selective determination of alkaline earth metals' under the supervision of Dr. Anita Goswami-Giri.

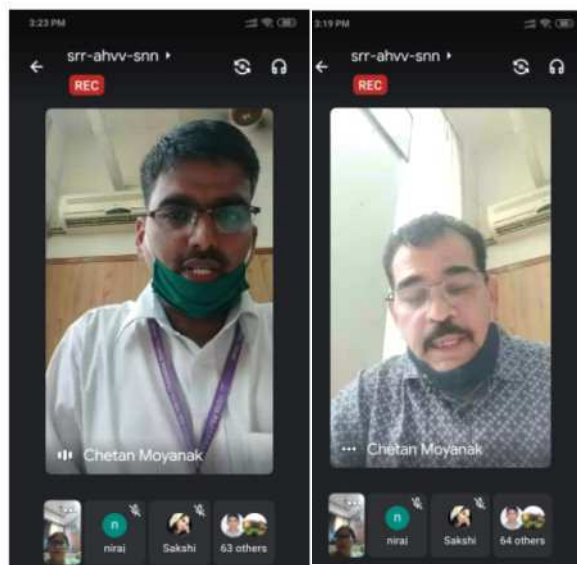
**Dr. Moitreyee Saha**  
Coordinator, Research Committee

## Special Cell

Due to epidemic COVID-19, we conducted two online webinars on 12th and 21st January, 2021 for SY BSc, TY BSc and MSc and FY BSc respectively. Our goal was to aware the students about Free ship and Scholarship available under various schemes by Social welfare department Maharashtra, Tribal department of Maharashtra, Chhatrapati Shahu Maharaj scholarship, open merit scholarship and minority department of Maharashtra.

Resource person Prof. Anil Athavle and Mr. Ramchandra Shinde shared details about these schemes, process of application, document required and how important is to link Aadhar card with a bank account. Resource person encourage need and merit-based students to apply for financial aid and support.

**Mrs. Sangita S.Meshram**  
Coordinator, Special Cell





## Student Leadership Committee

A Student Leadership Committee was formed in the present academic year, June 2020-2021 on the behest of I/C Principal Dr. Moses Kolet to look into the overall development of leadership potential in students of VPM's B. N. Bandodkar College of Science, Autonomous, Thane. The opportunities for leadership was to provide the student leaders with sufficient training, activities and programmes to develop them to be excellent effective leaders. To improve the interaction of student leaders by providing more recognition of student leaders among the student population. These student leaders role is to cultivate a campus community of shared goals, responsibilities, communication, advocate their needs, desires and to foster holistic development of students.

The student leaders members arranged several online activities. On 15th October, 2020 a lecture was delivered by Dr. Anupma Harshal Wadavlikar from IISER Pune on the topic '**How to read scientific Literature? and Introduction to MANAV : The Human Atlas initiative**'. A popular lecture was arranged by the Student Leaders Committee on 17th October 2020. Dr. Sampson David, an acclaimed Youth, Culture, Social activist and a popular singer has carved a special niche amongst youth and educational institutions. Dr. Sampson David interacted with the students online and spoke on the topic **Know India : Inculcation of Human and Cultural Values and all round development of Youth**. A five day workshop was arranged for our students, by the Research committee and Library department of VPM's B. N. Bandodkar College of Science, Autonomous, Thane from 27th October 2020 to 31st October 2020 on the topic '**Empowering Young Minds : Building a Research Trajectory**'.

On 12th December 2020, an interaction was arranged with the Student ambassador Mr. Clement Fawale Olajide at University of Mumbai from Nigeria. He spoke on the topic '**Nigeria: Culture, Economics and Education.**' The student leaders members arranged an online lecture by Ms. Clara Correia on the topic **Wetlands : Our Lifeline** on 19th December 2020.

Students leader Committee of VPM's B.N. Bandodkar College of Science, Autonomous, Thane organized a motivational lecture for the NCC Cadets of the College. The motivational lecture was arranged on 21st December 2020 on the topic "**Life in Indian Army**".

The students leaders Ms. Alphy Hari T.Y.B.Sc., Ms. Shravya Karkera T.Y.B.Sc., Ms. Rutuja Adhav S.Y.B.Sc, Mr. Atul Singh S.Y.B.Sc. and Mr. Anish Kadam F.Y.B.Sc.made arrangements and helped in conducting all the program.

Four groups of students from our college three from (Degree College/ English category) and one group from (Degree College/ Hindi category) participated in **All India Debate Competition 2020 of Confederation of Indian Industry CII on The India We Want** (Degree College/ Hindi category). Ms. Rutuja Adhav S.Y.B.Sc., Mr. Atul Singh S.Y.B.Sc. has won the **Second prize** in the All India Debate Competition 2020 of Confederation of Indian Industry CII on The India We Want (Degree College/ Hindi category).

**Dr. Moitreyee Saha**  
Coordinator, Student Leaders Committee

## Women Development Cell

National Level Debate Competition on the occasion of International Women's Day

Women Development Cell of VPM's B. N. Bandodkar college of Science (autonomous), VPM's Dr. V.N. Bedekar Institute of management studies and Yuvajagar of VPM's B. N. Bandodkar college of science (autonomous) organized National Level debate competition on the topic "Has gender equality been achieved in India?". Total forty two students with a team of two participated in the competition with each team presented their views within one minute duration.

Prize distribution ceremony was arranged on march 08, 2021. Three outstanding women guest speakers were invited during the ceremony and there was a felicitation of women teacher achievers and girl student achievers during the academic year 2020-21.

The guest speakers invited during the ceremony were:

1. Adv. Kalpana Unadkat, Senior Partner, Khaitan & company and champion of women's empowerment.
2. Dr. Imama Dalvi, Neuro Oncologist, Bombay Hospital
3. Dr. Hafiza Golandaz, executive director, International Leadership and Management Alliance.

The result of the National debate competition was declared by the judge Dr. Imama Dalvi as follows:

Language category – English

1 <sup>st</sup> prize	Shambhavi Joshi and Karishma Parmar	B. N. Bandodkar College of Science
2 <sup>nd</sup> prize	Vinayak Mokashi and Ryanston Rodrigues	B. N. Bnadodkar College of Science
2 <sup>nd</sup> prize	Gauri Kulkarni and Devayani Patel	Joshi-Bedekar college
3 <sup>rd</sup> prize	Pahel Jain and Harshita Sangam	Kirti College
3 <sup>rd</sup> prize	Poorva Ajgaonkar and Sayali Palav	BRIMS Institute
Consolation prize	Kiranjyot Kaur Mankoo and Priyanka Singh	Pillai College of Education
Consolation prize	Aaron Fernandese and Joshua Jacob	Smt. MMK College of Commerce and economics
Consolation prize	Aamena Ayyub Bubere and Aqsa Rafique Ahmed Shaikh	G. M. Momin Women's College, Bhiwandi
Consolation prize	Vedanti Gide and Aham Suresh Nahar	Kirti College

## SANYUJA 2020-21

### Language Category – Hindi

1 <sup>st</sup> prize	Anubhav Sharma and Smruti Dhadwade	Sahyog College, Thane
2 <sup>nd</sup> prize	Manisha Rathod and Jayesh Lohote	Bandodkar College of Science, Thane
3 <sup>rd</sup> prize	Saurabh Singh and Suraj Juyal	Bandodkar College of Science, Thane

### Language Category – Marathi

1 <sup>st</sup> prize	Swapna Deopurkar and Shatakshi Jadhav	Bandodkar College of Science, Thane
2 <sup>nd</sup> prize	Shivani Mane and Tanvi Keskar	BRIMS Institute of Management Studies
3 <sup>rd</sup> prize	Sayali Patil and Shivani Paranjpe	BRIMS Institute of Management Studies

Following prizes also were announced for best speaker and best videos

Best Speaker- Saurabh Singh and Devyani Patel (Bandodkar College of Science, Thane)

Best Videos

Vedanti Gide and Aham Suresh Nahar (Kirti college)

Vinayak Mokashi and Ryanston Rodrigues (Bandodkar College of Science, Thane)

Swapna Deopurkar and Shatakshi Jadhav (Bandodkar College of Science, Thane)

All the members of the organizing committee took lots of efforts to make the program a grand success. There were more than 200 participants attending the program.

**Mrs. Minal Wankhede**  
Coordinator, Women Development Cell

## १४ सितंबर “हिंदी दिवस २०२०-२०२१”

१४ सितंबर “हिंदी दिवस के उपलक्ष में अंतर राष्ट्रीय कथा कथन प्रतियोगिता का आयोजन किया गया था। दिनांक १२ और १३ सितंबर को गुगल मिट के माध्यमसे सुप्रसिद्ध साहित्यकार मुंशी प्रेमचन्दजी के कहानियों पर आधारित कथा-कथन प्रतियोगिता का आयोजन किया गया था। इसी दरम्यान तकरीबर १८० प्रतियोगियोने अपना नामांकन कर बढचढकर हिस्सा लिया।

इस प्रतियोगिता के परिक्षक के रूप में मुंबई विल्नस महाविद्यालय से डॉ. पूनम पटवाजी तथा बुस्टन बहरिन से प्रा. मिलिंद जाधवजी इन दोनों ने दिनांक १२ सितंबर को कनिष्ठ महाविद्यालयीन प्रतियोगिताओंका परिक्षण किया।

तथा दिनांक १३ सितंबर को डॉ. गोविंद निर्मलजी खालसा महाविद्यालय मुंबई से और डॉ. इमामा दलवी न्यूरो अँकोलॉजिस्ट मुंबई अस्पताल से तथा हिन्दी वाड्मय एस.एन.डी.टी विद्यापीठ से, इन दोनों ने दिनांक १३ सितंबर को वरिष्ठ महाविद्यालयीन प्रतियोगिताओंका परिक्षण किया।

इस कार्यक्रम में अपने महाविद्यालय के नवनिर्वाचित प्रधानाचार्य डॉ. मोजेस कोलेटजी, उपप्रधानाचार्य डॉ. आंबावडेकरजी तथा पर्यवेक्षिका प्राध्यापिका सौ. सुनिता ढाकणेजी उपस्थित थे। प्रधानाचार्य डॉ. मोजेसजीने अपने महाविद्यालयके कार्यक्रम में अंतर महाविद्यालयीन या अंतरराष्ट्रीय प्रतियोगिताओं बढावा देकर महाविद्यालय को और उंचा सम्मान दिया। डॉ. आंबावडेकरजीने हिन्दी दिवस के होनेवाले प्रतियोगिता को हार्दिक शुभकामनाएँ देकर प्रतियोगिता सफल होगी इसमें कोई संदेह नही ऐसा कहा। पर्यवेक्षिका सौ. सुनिता ढाकणेजी ने हिन्दी में भाषण देकर हिन्दी भाषा का महत्त्व बताया।

इस प्रतियोगितामें सभी छात्रोंने अपना कथा-कथन व्हिडीओ रेकॉडींग भेजा था। और कुछ छात्र ऑनलाईन समक्ष आकर प्रतियोगिताको अंजाम दे रहे थे। परिक्षकोंने व्हिडीओ का भी परिक्षण किया था। लेकिन परिणाम घोषित करणे के लिए ऑनलाईन छात्रों का भी परिक्षण करना था। दो दिनसे चले इस प्रतियोगिताकी घोणा करते समय डॉ. पूनम पटवाजी नें छात्रों को हिन्दी साहित्य कहानी, नाटक, कथा आदी से बने रहने को कहा, यह आज के समय की मांग है ऐसा उन्होंने कहा। डॉ. इमामा दलवीजीने कहा, जब हम भाण करते है तो उसमें आनेवाली व्याकरण शब्दोंका उच्चारण आरोह, अवरोह पर ध्यान देना जरूरी है। जीवन का तत्वज्ञान कम शब्दोंमे बताना आना चाहिए ऐसा कहा। डॉ. गोविंद निर्मलजीने प्रेमचंद के साहित्य को अबाधित रखने के लिए उसे पढो, पढना जरूरी है ऐसा कहा। अंतमें प्रा. मिलिंद जाधवजी ने कहा की प्रेमचन्दजी का साहित्य आज विश्वभर पढा जाता है, इस तरह की प्रतियोगितासे बच्चों में भाषण कौशल तथा आत्वविश्वास में बढोतरी होती है, ऐसा उन्होंने कहा।

दो दिवसीय चले इस उपक्रम को अजांम देने हेतू मेरे साथ लेफ्ट. बिपिन धुमालेजी (मराठी विभाग), प्रा. विनोद थोरातजी (गणित विभाग), प्रा. सौ. किरण चौधरीजी तथा प्रा. विकास दांडगेजी (अंग्रेजी विभाग) इन सभी का सहयोग मिला।

ऑनलाईन कार्यक्रम सुचारू रूप से हो इसके लिए बारहवी कक्षा के छात्र कु. आदिती राणे, कु. अमृता पाटील, कु. अश्लेषा भोसले, कु. कृतिका शिरसाठ, कु. आदिती रूपवते, कु. दर्शन घाटे आदिने सुत्रसंचालन और ऑनलाईन तकनिकी मुद्दोंपर ध्यान रखकर कार्यक्रम सुचारू रूप से संपन्न किया।

प्रतियोगितामें पुरस्कार पानेवाले छात्र

नाम	क्रमांक	महाविद्यालय का नाम
साहिल देसाई	१	के. जे. सोमय्या कॉलेज ऑफ सायन्स अँड कॉमर्स
आलिया खान	१	रिझवी कॉलेज ऑफ आर्ट्स, कॉमर्स अँड सायन्स



## SANYUJA 2020-21

गङ्गल शाह	१	विल्सन कॉलेज
ज्योती यादव	२	बी.एस.जी. डी. ज्युनिअर कॉलेज
वेता पांडे	२	बी.एस.जी. डी. ज्युनिअर कॉलेज
सुधांशु नायक	३	सेंट अँनि ज्युनिअर कॉलेज
दिव्या शर्मा	३	सी.बी. आदर्श विद्यामंदीर गांधीबाग नागपूर
सपना चौबे	३	विल्सन कॉलेज
महेश चव्हाण	उत्तेजनार्थ	बा. ना. बांदोडकर कॉलेज ऑफ सायन्स
नफीसा शेख	उत्तेजनार्थ	के. व्ही. पेंशेंकर कॉलेज
वर्षा सिंह	उत्तेजनार्थ	न्यू कलवा हायस्कूल अँड ज्युनिअर कॉलेज
अंतिमा प्रजापति	उत्तेजनार्थ	सेंट अँनि ज्युनिअर कॉलेज
दिव्या पुरी	उत्तेजनार्थ	न्यू कलवा हायस्कूल अँड ज्युनिअर कॉलेज
रानी यादव	उत्तेजनार्थ	एन.जी.आचार्य अँड डी.के. मराठे कॉलेज
आरती वर्मा	उत्तेजनार्थ	शेठ एन.के.टी.टी. कॉलेज
आदीन वागले	उत्तेजनार्थ	के. जे. सोमय्या कॉलेज ऑफ सायन्स अँड कॉमर्स
श्रुती पाटील	उत्तेजनार्थ	सेंट अँनि ज्युनिअर कॉलेज



प्रा. अनिल आठवले

## “युवा जागर” - अभिप्राय

बा.ना. बांदोडकर विज्ञान महाविद्यालयात जागर जाणीवांचा अभियान हा उपक्रम २०१२ पासून २०१८ पर्यंत होता. तेव्हा महाविद्यालयात अनेकविध कार्यक्रम राबवून महाविद्यालयात २०१३ व २०१४ साली सलग दोन वर्षे केलेल्या कार्याची पावती म्हणून महाराष्ट्र शासनाने जवळ जवळ रू. १५००००/- इतकी रक्कम चेकस्वरूपात क्रमाने प्रथम व द्वितीय प्रमाणपत्र देवून महाविद्यालयाचा सन्मान केला. समन्वयकाची भूमिका मला मिळाल्याने मला त्याचा सार्थ अभिमान आहे. पण २०१९ नंतर महाराष्ट्र शासनाच्या युवा सांसद या सदराखाली “युवा जागर” ठाणे जिल्हा शिक्षण मंडळाच्या माध्यमातून आपल्या महाविद्यालयात तालुका, जिल्हा व राज्यपातळीवर मुंबईतील विधानभवाना युवा पटू बनण्यासाठी वकृत्व स्पर्धा झाल्या आणि युवाजागर हयाची धुरा परत नविनरूपाने माझ्याकडे कार्यरत झाली आणि यावर्षी २००० पासून ही परंपरा महाविद्यालय पुढे निरंतर ठेवली पण २०२० पुढे कोरोनाच्या संसर्गामुळे सर्व विद्यार्थी शिक्षक सर्व कर्मचारी घरी राहूनच काम करू लागले पण हे करत असताना कोरोनावर मात करत आपण सर्वांनी घरी राहूनच मोबाईल, लॅपटॉप, कॉम्प्यूटरच्या माध्यमातून महाविद्यालयाची धुरा निकराने हातात घेतली व मुलांच्या शिक्षणाचा खेळखंडोबा होणार नाही याची दखल आम्हा सर्व शिक्षकांनी घेतली व विद्यार्थ्यांचा अभ्यासक्रम सुरू केला या कालावधीत प्राचार्य श्री. व्यंकटरमण सर सेवा निवृत्त झाले आणि प्रभारी प्राचार्य म्हणून डॉ. मोझेस कोलेट सरांनी पदभार सांभाळला आणि त्यांनी युवा जागरला झळाळी दिली आणि विविध ऑनलाईन कार्यक्रम राबविण्यात आले त्याच राज्यस्तरीय वकृत्व स्पर्धा घेण्यात आल्या. विद्यार्थ्यांनी त्यातही सहभाग घेतला. महाराष्ट्र राज्य कनिष्ठ महाविद्यालय अध्यापक संघ यांच्या माध्यमातून ऑनलाईन वकृत्वस्पर्धेचे आयोजन करण्यात आले व त्यातही आपल्या महाविद्यालयाच्या विद्यार्थ्यांना सहभाग घेतला.

कोरोना काळाआधी आपण घेतलेला ४० ते ५० हजाराचा मोबाईल केवळ फोटो, वॉट्सअप, फेसबुक, इंस्टाग्राम असणारे आपण कधी मोबाईला पूर्ण पैसा वसूल केला हे कळलेच नाही या काळात विद्यार्थ्यांकडून बरेच काही शिकायला मिळालं आणि स्वतःही प्रयत्न केला आणि मोबाईलचे ऑनलाईन विविध फायदे, पीपीटी, स्लाईड शो, कार्यक्रमात त्याचा उत्कृष्ट उपयोग करून आपण आपल्या भावना, आपले विचार, आपल्या पुस्तकातील विविध विषय त्या विषयातील बारकावे आणि फळयावरचे लिखान जेव्हा पुर्वीपासून चालत आलेल्या पाटीवर येते तेव्हा काळ किती आणि कसा काय रूप दाखवू शकेल याची प्रचीती येते आणि गणित असो, विज्ञान असो, भाषा असो, खेळ असो, कम्प्यूटर असो कि ऑनलाईन मिटींग असोत. अगदी वेळेची बचत आणि सुस्पष्ट आवाज सचित्र आपण दृक्श्राव्य पद्धतीने एकमेकांस घरबसल्या बोलू शकतो, लिहू शकतो, गाऊ शकतो, कविता करू शकतो हे कोरोनाने दाखवून दिले.

आणि याकाळात आपल्या महाविद्यालयातील कनिष्ठ व वरिष्ठ विद्यार्थी- विद्यार्थीनींनी याची धुरा सांभाळून टेक्निकल पार्ट उत्तम हाताळून कार्यक्रम संपन्न केले. त्याचबरोबर आपल्या महाविद्यालयात एन.एस.एस, एन.सी.सी. बरोबर होणाऱ्या प्रत्येक कार्यक्रमात युवा जागरच्या माध्यमातून विद्यार्थ्यांनी मोठ्या प्रमाणात सहभाग घेतला. मग तो स्त्री-पुरुष समानतेवर आधारीत, जेंडर समानता असो, अथवा धुम्रपान निषेध दिवस, पर्यावरण दिवसाचे औचित्य साधून, वृक्षारोपणाचा कार्यक्रम असो, पर्यावरण दिवस असो, वाचन प्रेरणा दिवस हे सर्व कार्यक्रम ऑनलाईन पद्धतीने युवकांनी युवकांपर्यंत पोहोचवण्याचे काम केले. त्याचबरोबर त्यांना भवन्स महाविद्यालय अंधेरी मुंबई येथे झालेल्या कुलपती के.एम. मुन्शी मेमोरियल ट्रफी आंतरमहाविद्यालयीन निबंध व वकृत्व स्पर्धेत आपल्या बांदोडकर विज्ञान महाविद्यालयाच्या पाच विद्यार्थ्यांनी सहभाग घेतला होता, त्यात आपल्या वरिष्ठ महाविद्यालयाची विद्यार्थीनी कु. श्रेया नाडकर्णी हिने मराठी निबंध स्पर्धेत प्रथम श्रेणी प्राप्त केली आहे, तिला प्रथम क्रमांकाचे प्रमाणपत्र, सहभागी प्रमाणपत्र व रू. १०००/- (एक हजार मात्र) चे पुरस्काराने सन्मानित करण्यात आले. उर्वरित आपल्या कनिष्ठ महाविद्यालयाच्या चार विद्यार्थ्यांनाही सहभागी प्रमाणपत्र प्राप्त झाले.

त्याचबरोबर सालाबादाप्रमाणे याही वर्षी कोरोना असल्याने कार्यक्रम घेता आले नाही. तरीही १२वी तील विद्यार्थ्यांना १२ वी नंतर काय? करियर मार्गदर्शन मेळावा घेवून बीआरडीएस या संस्थेच्या श्रीमती रोहिणी शर्मा यांचे ऑनलाईन व्याख्यान माध्यमातून ठेवून विद्यार्थ्यांना अनेक प्रकारच्या करिअरच्या वाटा उपलब्ध करून देण्यात आल्या त्यात त्यांनी आर्किटेक्चर, इंटरियर डिझाईन, तसेच सोसायटीच्या आवारातील बागबगीच्या डिझाईन सहीत अनेक कळाकुसरच्या माध्यमातून आपण आपले स्वतःचे एक वेगळ अस्तीत्व निर्माण करू शकतो यावर भर दिला व विद्यार्थ्यांना मार्गदर्शन केले. सदर कार्यक्रमात २५० पेक्षा अधिक विद्यार्थ्यांना लाभ घेतला. यावेळी महाविद्यालयाचे प्राचार्य डॉ. मोजेस कोलेट, उपप्राचार्य श्री. आ. व्ही. लेले यांचेही मार्गदर्शन लाभले. तसेच बीआरडीएसचे मार्गदर्शक श्री. यादवजी यांनीही मार्गदर्शन केले.

धन्यवाद

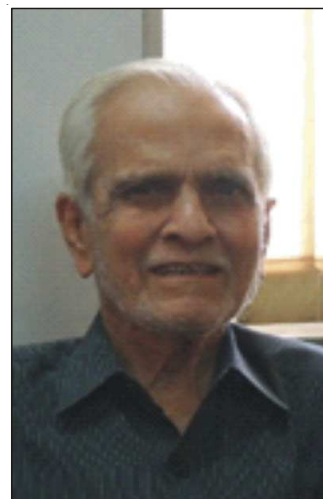
प्रा. श्री. अनिल आठवले  
समन्वयक - युवा जागर

## **Retired Staff**

- Prof. S. Vankatraman, former I/C principal and Head of Dept. of Physics retired in Sept. 2020.
- Dr. D. R. Ambavadekar, Vice Principal, and Head of Dept. of Chemistry retired in May .2021.
- Shri S. D. More, Lab Attendant, Dept. of Chemistry, retired in December 2020.

## **Sad Demise**

- Former Principal Dr. G.V. Kulkarni left for heavenly abode on 10/3/2021.
- Our security staff Shri Murlidhar G. Kushavah left us for his heavenly abode on 25/5/2021.
- Former retired teaching staff of Department of Chemistry Dr P. G. Bamane left for heavenly abode on 9/4/2021.
- Former staff of Chemistry Department Shri Pandhare left for heavenly abode on 21/12/ 2020.





# Results and Achievements

dreamstime





**SUBJECTWISE RESULT**  
**ACADEMIC YEAR 2019–2020**

**Tabulated Results of the last University Examinations conducted in First Half of 2020**

<b>Subject</b>	<b>Pass Percentage (%)</b>
F.Y.B.Sc.	50.75
S.Y.B.Sc.	67.51
T.Y.B.Sc.	96.01
M.Sc.	97.01

**Subject wise results at Post-Graduation (M.Sc.) are as follows:**

<b>No.</b>	<b>Subject</b>	<b>Pass Percentage (%)</b>
1	Chemistry	100.00
2	Biodiversity Conservation and Wildlife Mgmt.	100.00
3	Environmental Science	100.00
4	Physics	85.71
5	Information Technology	100.00
	<b>Overall Result</b>	<b>97.01</b>

**Subject wise results at Graduation (T.Y.B.Sc.) are as follows :**

<b>No.</b>	<b>Subject</b>	<b>Pass Percentage (%)</b>
1	Botany	91.67
2	Chemistry	100.00
3	Mathematics	97.50
4	Physics	74.29
5	Statistics	100.00
6	Zoology	95.74
7	Biotechnology	90.00
8	Biochemistry	100.00
9	Computer Science	100.00
10	Human Science	100.00
11	Information Technology	99.08
12	Microbiology	88.89
	<b>Overall Result</b>	<b>96.01</b>

**JUNIOR COLLEGE****F.Y.J.C. Result for the Academic Year 2019-20**

No. of students appeared	: 487
No. of students cleared with Distinction	: 54 (11.10 %)
No. of students cleared with First class	: 206 (42.30 %)
No. of students cleared with Second class	: 186 (38.20 %)
No. of students cleared with Pass class	: 39 (08.00 %)
No. of students Failed	: 02 (00.40 %)
Total No. of Candidates Passed	: 485
Percentage of Result	: 99.60%

**FIRST IN RANK**

Rank	PRN	Name of the Student	Marks	Percentage
1	2019410362	KAMBLE ANISH SANJAY SHAILAJA	567	94.50
2	2019410358	GUJARE NIHAL PRAVIN VANDANA	561	93.50
3	2019410091	GADGE SIDDHI ATMARAM SARLA	559	93.16

**FIRST IN SUBJECT**

Sr. No.	Subject	PRN	Name of The Student	Marks out of 100
1	English	2019410091	GADGE SIDDHI ATMARAM SARLA	92
		2019410347	AGRAWAL ARYAN BRIJ DEEPA	92
2	Marathi	2019410127	JAGDALE REVATI VIJAY SAMPADA	96
3	Sanskrit	2019410320	JADHAV PRADNYA RAJESH NILAM	94
4	Hindi	2019410437	MAURYA SNEHA SHESHNATH MEENA	93
5	Maths	2019410320	JADHAV PRADNYA RAJESH NILAM	100
6	Physics	2019410358	GUJARE NIHAL PRAVIN VANDANA	95
7	Chemistry	2019410408	GOUDA RAHUL KUSHAN APURVA	100
8	Biology	2019410491	YADAV SATYAM DEVIDAYAL ANITA	99
9	Comp. Sci.	2019410362	KAMBLE ANISH SANJAY SHAILAJA	193 / 200



## JUNIOR COLLEGE

### HSC Result for the Academic Year 2019-20

No. of students appeared (Fresh)	: 416
Fresh + Private + Repeaters + Class Improvement + Isolated	: 416 + 22 + 34 + 7 + 1 = 480
No. of students cleared with First class with Distinction	: 87
No. of students cleared with First class	: 206
No. of students cleared with Second class	: 118
No. of students cleared with Pass class	: 00
No. of students Failed	
Fresh + Private + Repeaters + Class Improvement + Isolated	: 5 + 6 + 16 + 1 + 0 = 28
Total No. of withheld Result	: NIL
Total No. of Candidate Passed	
Fresh + Private + Repeaters + Class Improvement + Isolated	: 411 + 16 + 18 + 6 + 1 = 452
Percentage of Result (Fresh)	: 98.79%

#### FIRST IN RANK

Rank	Name of the Student	Marks	Percentage
1	Mr. Panchal Aniket Gajanan	604	92.92%
2	Mr. Maurya Prakash Nandlal	599	92.15%
3	Mr. Purohit Sarvagnya Hrishikesh	595	91.54%

#### FIRST IN SUBJECT

Sr. No.	Subject	Name of The Student	Marks out of 100
1	English	Ms. Gondhalekar Anusha Ganesh Ms. Chavan Ruchi Manoj	88/100
2	Marathi	Ms. Auti Vaishnavi Dattatray	91/100
3	Hindi	Mr. Daundkar Saurabh Santosh Ms. Gangurde Saakshi Satish Mr. Ghule Karan Shivram	95/100
4	Sanskrit	Ms. Alaskar Shatakshi Satish	91/100
5	Maths	Mr. Maurya Prakash Nandlal Ms. Kokate Srushti Subhash Ms. Jain Yukta Ranjeet	100/100
6	Physics	Mr. Purohit Sarvagnya Hrishikesh	97/100
7	Chemistry	Mr. Panchal Aniket Gajanan	97/100
8	Biology	Mr. Kumbhar Chetan Mallikarjun	96/100
9	Comp. Sci.	Mr. Purohit Sarvagnya Hrishikesh	187/200

**ANNUAL RESULT - M.Sc (SEM II to SEM IV)  
ACADEMIC YEAR 2019-2020**

**Total Appeared** :- 67  
**Total Passed** :- 65  
**Percentage** :- 97.01%

**Subjectwise Result : 2019-2020**

<b>SUBJECT</b>	<b>TOTAL PASS</b>	<b>TOTAL APPEARE</b>	<b>Fail</b>	<b>Passing Percentage</b>
Biodiversity and Wildlife	12	12	0	<b>100.00</b>
Chemistry	10	10	0	<b>100.00</b>
Environmental Science	13	13	0	<b>100.00</b>
Physics	12	14	2	<b>85.71</b>
IT	18	18	0	<b>100.00</b>
<b>Total</b>	65	67	2	<b>97.01</b>
Total Pass Percentage	97.01			
<b>Total Appeared Percentage</b>	<b>100</b>			

## DEGREE COLLEGE ENDOWMENT PRIZES 2020 – 2021

Sr. No	Name of Awardee	Name of the award Winning Student	Award Specifications
1	Late Shri Gunakar N. Joshi Smarak Yojana Science Prize of Rs.150/- (Through Past Students' Association).	SHAIKH MANTASHA ABDUL MABOOD 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 of Rs. 500 /- (Through Dr. R.P. Athalye & Family).	SHAIKH MANTASHA ABDUL MABOOD 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 of Rs. 500/- (Through Dr. R.P. Athalye & Family).	KOLHATKAR NACHIKET 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 Natekar.	SHAIKH MANTASHA ABDUL MABOOD SHABANA	Being the first in rank among the students of this college passing B.Sc. Examination, April, 2020
5	Shri Dattaram S. Natekar & Mrs. Kamal D. Natekar Thane Science Prize of Rs.45/- in memory of their son Late Vijay Natekar	NEMAN MANALI MANGESH ANJALI	Securing highest marks from amongst Backward Class students of this college passing B.Sc. Examination, April, 2020
6	Late Prof. Dr. Mrs. S.S. Borgaonkar Prize of Rs. 270/- (Through Prof. S.K. Borgaonkar).	SHAIKH MANTASHA ABDUL MABOOD SHABANA	To the student of this college passing TYBSc Examination of the University securing highest marks in Zoology.
7	Late Shri Mandar Suryakant Joshi Prize of Rs.301/- through Shri S.M. Joshi,Thane.	<b>Boys NCC (Army Wing)</b>  DEVESH DINESH SHUKLA	To be awarded to the best NCC cadet of this college alternately from Boys/ Girls NCC (Army Wing) every year.

## SANYUJA 2020-21

8	Shri Dhondo Waman Tillu Science Scholarship of Rs.1000/- (Through Vidya Prasarak Mandal, Thane).		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.
9	Late Shri Deepak Ganesh Kokaje Prize of Rs. 270/-.	MANDRAI ROHAN BHAGWANDAS KSHAMABAI	To the student of this college passing TYBSc Exam of the University securing highest marks in Physics.
10	Late Shri Bhagwandas Huku Hotchand Keswani Prize of Rs.270/-.	BHONKAR RUSHIKESH VINOD VIDHYA	To be awarded to the student of this college securing highest marks in Mathematics.
11	Late Shri Bhoir Himanshu R. Prize of Rs.270/-.	KHAN SAIMA QAMAR SHAMSUL QAMAR RAHISUNNISA	To be awarded to the student of this college passing T.Y.B.Sc. Exam. securing highest marks in Botany.
12	Late Smt. Indira Phadake Prize of Rs.270/-(Through Prof. Mrs. S.M. Phatak)	KHAN AYESHA HIFZUR REHMAN KHAN SABA	To be awarded to the student of this college passing TYBSc. Exam. securing highest marks in Statistics.
13	Late Shri. G.R.Patil and Late Smt. S.G.Patil Prize of Rs. 580 /- (through Ex-Principal Shri.C.G.Patil , Thane).		Being the first in F.Y.B.Sc. in the College Examination in the academic Year 2019 – 2020
14	Late Shri. G.R.Patil and Late Smt. S.G.Patil Prize of Rs. 580 /- (through Ex-Principal Shri.C.G. Patil, Thane).		Being the first in S.Y.B.Sc. in the College Examination in the academic Year 2019 – 2020
15	Late Shri. G.R.Patil and Late Smt. S.G.Patil Prize of Rs. 580 /- (through Ex-Principal Shri.C.G. Patil, Thane).	SIDRA SABA NOUMAN HASAN ANJUM	Being the first in M.Sc.Part - II In the College in the academic year 2019 – 2020
16	“Mayuresh and Alpana Past Students Statistics 1984” Prize of Rs.270/- (Through Past Students Mr. Mayuresh Dhond & Alpana Gupte)	KHAN AYESHA HIFZUR REHMAN KHAN SABA	Being the first in Statistics in T.Y.B.Sc. Examination April 2020.



## SANYUJA 2020-21

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

**I/C Principal**

V.P.M.'s B.N.Bandodkar College of Science (Autonomous),  
Thane.

## JUNIOR COLLEGE ENDOWMENT PRIZES 2020 – 2021

Sr. No	Name of Awardee	Name of the award Student	Award Specifications
1	Dr. V.N. Bedekar Science Prize of Rs.125/- (on behalf of Vidya Prasarak Mandal, Thane).	Mr. Panchal Aniket Gajanan	Being the First in rank among the students of this college passing HSC Examination of Mumbai Board in February, 2020
2	Late Shri Vasant Ramkrishna Karnik & Smt.Indira V.Karnik Science Prize of Rs.90/- (Through Shri.Shirish V. Karnik)	Mr. Sherlekar Omkar 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 Smarak Yojana Science Prize of Rs.150/- (through Vidya Prasarak Mandal, Thane).	Mr. Panchal Aniket Gajanan	Being the First in rank among the students of this college at the last HSC Examination of Mumbai Board
4	Late Shri Hanumant Sitaram Dixit Prize of Rs.1000/- (through Prof. M.H. Dixit).	Mr. Kumbhar Chetan Mallikarjun	Obtaining the Highest Marks in Biology among the students of this College passing HSC Exam, of March, 2020 of Mumbai Divisional Board.
5	Late Shri Madhav Govind Deo & Late Smt. Mangalabai Madhav Deo, Thane Prize of Rs. 135/-.	Mr. Panchal Aniket 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 Deo & Late Smt. Mangalabai Madhav Deo, Thane Prize of Rs. 135/-.	Mr. Panchal Aniket 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 Ranade Prize of Rs. 1000/- (Applicable from 2017 to 2027 only)	Mr. Kamble Anish Sanjay	Being the First in rank among the students of this college passing F.Y.J.C. Exam of March, 2020
8	Late Mr. Narayan Ganesh Sathe Prize of Rs. 1000/- (Applicable from 2017 to 2027 only)	Ms. Jadhav Pradnya Rajesh	Obtaining the Highest Marks in Mathematics among the students of this College passing F.Y.J.C. Exam, of March, 2020
9	late Mr. Ramkrushna Govind Khambete Prize Of Rs.1000/- (Applicable from 2019 to 2033 only)	Mr. Kamble Anish Sanjay	Being the First in rank among the students of this college passing F.Y.J.C. Exam of March, 2020

## Student's Achievements

1 31/03/2021

TY Statistics student Ms Intesaar Limbodiwala won the Second Prize in National Level Slogan Competition conducted by Legal Aid Committee of KC Law College.

(The First and Third prizes were won by Law students from Jammu University and Osmania University respectively)

2 27/03/2021

We were honoured as our fybsc IT student Ms Manasi Gadag (centre) played cricket at national level , representing maharashtra and the Maharashtra Women's team were runner up at all india level.

3 27/03/2021

NSS VOLUNTEER "VIBHUTI PATIL" won the Third Prize

(=Mandala Art Competition) at an intercollegiate level in Uttung 2020-2021 arranged by NSS UNIT of R.A. Podar College

4 24/03/2021

Mr. Abhishek Jadhav FYIT won Third Prize in Mimicry Competition in University Youth Festival On 24/03/2021

5 Ms. Shambhavi Joshi TY Microbiology won Second Prize in Elocution Competition in Unversity Youth Festival 24/03/2021

6 Ms Riddhi Kumavat (TYBSc Mathematics) cleared IIT-JAM 2021 examination and being in merit list

7 Ms Pranali Dhiware (TYBSc Chemistry) cleared IIT-JAM 2021 examination and being in merit list

8 Ms. Sanyukta Bholay (TY Microbiology), Ms. Swapna Deopurkar & Ms. Afrah Nawaz (TY Biotechnology) , cleared TIFR exams for furthur studies in the Research Institute.

9 Ms. Prachi Dumbre, (TY Biotechnology) cleared GATE exam with all India rank 60.

10 Cultural joint secretary Sahil Ghadge got 3rd price in National level poster making competition in chem -euphoria fest organised by Wilson College Mumbai on 13/03/2021

11 Ms. Pranoti Joshi, FYBSc Biochemistry won second prize in intercollege state level essay competition organized by AI Janjira Degree College, Murud Janjira on 10/03/2021

12 Ms Shreya Nadkarni FYBSc won a prize for her presentation on 'Baye's Theorem' in intercollegiate PPT presentation competition on 'Theorem and its Application' organized by B. K. Birla College on

09/03/2021

- 13 Mr. Sahil Ghadge, SYBSc Secured First prize in intercollegiate poster making competition In Aarohan 2K21organised by VPM's RZ Shah college Mulund on 09/03/2021
- 14 Ms. Manali Kamble won second prize in intercollege singing competition In Aarohan 2K21organised by VPM's RZ Shah college Mulund on 09/03/2021
- 15 Ms. Tanvi Shirgaonkar (TYBSc Chemistry) won third prize in inter college Paper presentation competition organized by Ruia College on 27/02/2021  
On 30 January 2021 also she had won Third prize in intercollege research competition of Somaiya Vidyavihar.
- 16 Ms. Shreya Nadkarni from FYBSc PMS won first prize in inter-collegiate essay competition organised by Bhavans College on 25/02/2021
- 17 Ms. Sanjeeda Islam and Mr Sahil Ghadge won prizes in Inter college online poster competition organized by Guru Nanak College on 24/02/2021.
- 18 Sujeet Singh of TYCS Successfully Cleared the TCS "National Qualifier Test" with 78%; organized by TCS India.
- 19 Sneha Lanjekar of TYCS Successfully completed EF SET exam, achieving an overall English level of C2 on May 21, 2020.
20. Sneha Lanjekar of TYCS Won Third Prize in "International Walkersjoin Contest" organized by DJ alan walker.
- 21) Ankita Bandre of FYIT achieved 3<sup>rd</sup> Position in Competition on "Quotes Writing" presented by LEADABILTIY from February 4, 2021 to February 14, 2021.
- 22) Rishabh Singh of SYIT
  - Got 1st Rank in National Poster Making Competition
  - Won AI Gaming Tournament by Microsoft India
  - Achieved Mimo Game Developer Certification
  - Achieved Alpha Recognition as a Microsoft Learn Student Ambassador



## Department of Biotechnology & Microbiology - Students' Achievements

Academic Year	Name of the Candidate	Class	Biotech / Micro	Prize / Rank	Type of Competition	Date of the competition (DD/MM/YYYY)	Organizing Institute
2020-21	Mubeera Iqbal shaikh	TY	Microbiology	2nd	brainy quiz	13/02/2021	SIES College
2020-21	Zubiya Ali Kadar Khan	TY	Microbiology	1st	Word Search	21/02/2021	SIWS College
2020-21	Zubiya Ali Kadar Khan	TY	Microbiology	3rd	Bio-Poetry	21/02/2021	SIWS College
2020-21	Shambhavi Mukund Joshi	TY	Microbiology	1st	Debate Competition	08/03/21	B. N. Bandodkar College of Science
2020-21	Shambhavi Mukund Joshi	TY	Microbiology	1st	Quiz	29/01/2020	Bedekar College
2020-21	Shambhavi Mukund Joshi	TY	Microbiology	2nd	Letter Writing	29/01/2020	Bedekar College
2020-21	Shambhavi Mukund Joshi	TY	Microbiology	1st	Debate	20/02/2020	Bedekar College
2020-21	Shambhavi Mukund Joshi	TY	Microbiology	1st	Elocution	21/01/2020	B. N. Bandodkar College of Science
2020-21	Anushree Anil Keni	TY	Biotechnology	2nd	PPT Presentation	15/03/2021	B. N. Bandodkar College of Science
2020-21	Kheyati Shaillesh Gupta	FY	Biotechnology	2nd	Singing competition	02/03/2021	B. N. Bandodkar College of Science
2020-21	Vedang Kishor Suvarna	FY	Biotechnology	3rd	Photography competition	02/03/2021	B. N. Bandodkar College of Science
2020-21	Aditya Bhupesh Kumar Yadav	SY	Biotechnology	4th	Sketching competition	02/03/2021	B. N. Bandodkar College of Science
2020-21	Senjeeda Rabiul Islam	FY	Biotechnology	3rd	Poster making competition	22/02/2021	Guru Nanak College of Arts, Science and Commerce.
2020-21	Rutik Santosh Thorat	FY	Biotechnology	Global Youth Fellowship	Karmaveer Chakra Awards (Global Citizen Awards)	-	REX Karmaveer Global Youth Fellowship in association with The Campus Connect and Karmaveer Chakra Awards instituted by ICONGO in partnership with United Nations.
2020-21	Swapna Pravin Deopurkar	TY	Biotechnology	1st	Debate competition	08/03/2021	B. N. Bandodkar College of Science
2020-21	Swapna Pravin Deopurkar	TY	Biotechnology	Cleared TIFR examination	TIFR GS2021	07/03/2021	Tata Institute of Fundamental Research
2020-21	Prachi Pravin Dumbre	TY	Biotechnology	AIR 60	GATE BT	13/02/2021	Indian Institutes of Technology Bombay
2020-21	Prachi Pravin Dumbre	TY	Biotechnology	AIR 456	IIT JAM	14/02/2021	IISC BANGLORE
2020-21	Swapna Pravin Deopurkar	TY	Biotechnology	AIR 819	IIT JAM	14/02/2021	IISC Bangalore
2020-21	Gayatri Naresh Varekar	SY	Microbiology	3rd	Calligraphy	13/03/2020	B. N. Bandodkar College of Science
2020-21	Mansi subhash salunke	TY	biotechnology	2nd	Essay writing	02/03/21	B. N. Bandodkar College of Science
2020-21	mansi subhash salunke	TY	Biotechnology	2nd	Rangoli competition	03/03/21	B. N. Bandodkar College of Science
2020-21	Gargi Sushil Gupte	TY	Biotechnology	Consolation	Dance competition	01/03/21	B. N. Bandodkar College of Science
2020-21	Prerana Suresh Vedre	TY	Biotechnology	3rd	Sketching Competition	02/03/21	B. N. Bandodkar College of Science
2020-21	Ashwini Nandkishor Salunkhe	SY	Microbiology	2nd	Poem recitation	03/03/2021	B. N. Bandodkar College of Science
2020-21	Sakshi Suryakant Shinde	SY	Microbiology	3rd	Dance Competition	03/03/2021	B. N. Bandodkar College of Science
2020-21	Afradh Layeek Nawab	TY	Biotechnology	Cleared TIFR examination	TIFR GS 2021	07/03/2021	Tata Institute of Fundamental Research
2020-21	Afradh Layeek Nawab	TY	Biotechnology	AIR 870	IIT JAM	14/02/2021	IISC Bangalore
2020-21	Afradh Layeek Nawab	TY	Biotechnology	1st	Poem Recitation	13/07/2020	K. B. College of Arts & Commerce for Women, Thane

## STAFF ACHIEVEMENTS



**Mr. Ajit Bhumkar**  
was awarded with  
**Ph.D. degree** in Chemistry  
from University of Mumbai  
in the year 2020



**Mr. Pralhad Shriram Wagh**  
was awarded with  
**Ph.D. degree** in Chemistry  
from University of Mumbai  
in the year 2020



**Mrs. Minal Wankhede Barsagade**  
received **M.A. degree** from  
University of Mumbai  
in the year 2020



**Lt. Bipin Dhumale**  
ANO of ASC Thane Unit  
was awarded by  
**Director General**  
**NCC Commendation Card**  
in the year 2020

# Book Review Articles & Poems







## Online Education : A "boon" or a "bane"

Well, the Concept of online education is being popular nowadays. We were in the duration of lockdown for more than 6 (six) Months, almost a half of academic year. Many of the Countries have started providing online education to their students.



Now, the point is whether the Online Education is a "boon" or a "bane". So, for some extent, its a bane for me or according to me. Some people also think that its a boon.

Online education has helped, students a lot in their studies. As, we know that, its a new world of "online education" for the students, so on major scale they are enjoying it a lot. But this enjoyment will give them a temporary pleasure. Many of the students cannot afford this pleasure, due to their economic conditions or not having the facilities of internet, Mobile (Androids), Laptop etc. as some of them stay in remote areas.

I think that going to school & learning and making live interacting with teacher, friends has a real enjoyment and it also boosts up the skills of students and also online education is not good for the health of student, it can affect their eyes, their brains and also students sit at one place for hours and hours, due to which they develop laziness in their body and also online education restricts the physical activities of students.

Yes, I agree that, because of online education schools have covered atleast 20% of syllabus. But I think that schools should reduce the syllabus and wait until the offline education starts.

And I pray that this "Corona period" should get over soon. So that student could enjoy the school life and develop their personality and learn to be a kind and good human being.

**Tanmay D. Avhad**  
SYJC



## 2020- A year of epic...!

The year 2020 is a year that people don't want to remember. There are many reasons for this and biggest of those is covid-19. Now we can't imagine that just a few months ago the whole world was shuttred with all the work and education stopped; but because of this digital world we found a solution for this problem & that was work from home and online education.

The pandemic spread an environment of fear, anxiety and disappointment all over the world. And now we can see all the educational institutions, the government, and other non-profit institutions are doing their best so that the students can again come to the schools and colleges. Also our country has made available a vaccine for covid-19. This has given a big relief to all the people.

On 25th March 2020, first lockdown of 21 days was announced in India. That time we were all feared and didn't know how to protect ourselves and our families from the virus. We were all hearing in the news the numbers of people who were infected due to this virus. This count was increasing day by day starting from hundreds and reaching thousands and lakhs in the whole country. The lockdown continued till November with the similar situation. But between all these pandemic situations they were the police forces, military forces and doctors who were fighting against the virus so that we can stay safe.

We consider 2020 as a year with very bad memories because of events as covid-19, cyclone Nisarga, Australian bushfire, lockdown, earthquake in Ladakh and many more... But this year has also given us some good learning as to be clean and neat. There are many good things that happened in 2020 as the environment was healed due to no pollution, the word 'Hero' was redefined, we were reconnected to our families...etc.

Although the virus troubled us a lot but still it gave us some essential learnings and taught us the importance of cleanliness. We learnt that our lives are more important than any other thing. Also the importance of balance in nature was known and now further we should maintain the balance in the nature so that the condition does not take a different turn again.

With a positive mindset let's hope for a good and healthy life for all by saying this prayer...

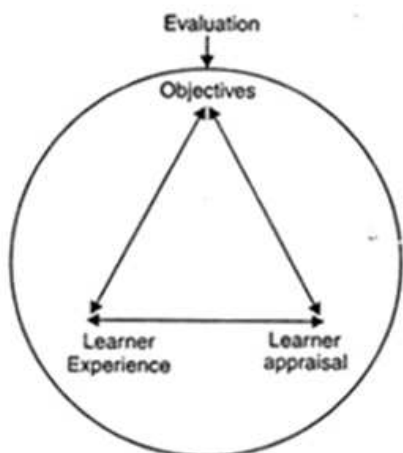
**Chirag Patankar**  
11<sup>th</sup>/ D

## **Better Evaluation Techniques for Effective Teaching-Learning Outcomes**

Among the services present on the earth, teaching is the one which takes us near to God. This feeling of doing Godly service is felt only if we are following the unsaid rules of the creator. Being in the service for the more than ten years, I see this profession as a great responsibility not allotted to me by my employer but by the almighty. This sense needs to be alive in every teacher to understand some unwritten rules of the creator. Being a teacher is not just a profession but it is a character. Unless a teacher has purity in character, thoughts,

heart, the students won't receive it. This will eventually reflect in the nation when these students become citizens. Therefore, the education system needs checkpoints to evaluate the effectiveness of its own service.

The teacher and teaching methods have undergone tremendous changes in past decades. The education system has witnessed eras that were dominated by a particular technology for knowledge delivery. Starting from drawing & oratory mode, it became a part of the computer era since 1990 and now we have entered into a digitally interactive era in the twenty-first century. These transformations were adopted time to time by teachers and the method of teaching changed from teacher-centric to learner-centric and participative. But the outcome analysis was constrained only to the evaluation of the learner and not that of the process. Evaluating the teaching-learning process is as important as that of evaluating a learner. Only then we will be able to follow Demming's PDCA (Plan-Do-Check-Act) cycle to upgrade the education system in a better way. This is exactly what accrediting institutes emphasize on.



Assessment of students' learning enables education institutes not only to identify their own strengths and weaknesses but also to correct their learning deficiencies and misconceptions. The evaluation methods include seven different types viz. diagnostic assessment, Formative assessment, Summative assessment, Confirmative assessment, Norm-referenced assessment, criterion-referenced assessment and Ipsative assessment. However, implementation of all these methods is not seen in reality except that of formative and summative type. One of the limitations in Indian education system is the teacher-student ratio. However, with the advent

of ICT in education we can overcome this by changing the way we assessed the students. The current methods that are followed include internal, external assessment for theory and practical. The pandemic of COVID-19 has changed the way we looked at everything. What if we also look at the old evaluation techniques in an innovative way?

Today's competitive age expects students to be sharp, focused and smart workers. The teachers being another important pillar of the system should also be equally smart to design innovative evaluation methods that go with the technological advancements. Keeping students attracted to give examinations without taking stress remains another challenge today. University of Wisconsin professor Donald Kirkpatrick has suggested three levels for the process of evaluation, namely micro, macro and mega level. Micro level evaluation is related with the benefits gained by the student, macro level will deal with the benefits gained by the Institution as an effect of student's learning and mega level involves societal levels of gains. Right now, we only evaluate at the student level i.e. micro level. Also, for evaluating at these three levels, we must drop the age-old pen and

paper method and embrace digital platforms, even when schools and colleges reopen. Of course, we might face technological challenges here like availability of digital instruments and stable internet connection but the advantages of digital examinations outweigh these drawbacks by far. In order to overcome the limitations, colleges can provide platforms e.g. Wifi hotspot devices on rent, chrome books etc to the students who don't own the technology so that education can truly be free for all.

We may not start implementing the change on large scale (i.e. University) but at teacher level we can definitely think of implementing this change where each and every student's progress can be assessed and problems can be solved. With autonomy being given to most of the University affiliated colleges, it will be very critical for the colleges to maintain high standards to keep the admission rate high. The teachers of such colleges will have to adopt new innovative ways to teach. Along with this, the institute will also have to implement innovative evaluation methods that will also be Learner-centric. HEIs should customize the evaluation method as per the need and ability of the child.

Current pattern of theory examination has become just a game of content retention of knowledge irrespective of testing ability to implement it. Students study a particular concept with an aim to be able to write about it in the semester exams. Their approach to look at exams needs a thorough change which can be done only through changing methods of evaluation. The descriptive exams don't prepare students to face competitive exams. Competitive exams expect students to study in a different way. In order to make students more prepared for such exams the internal assessment exams can be time bound and of MCQ type. COVID – 19 has already made some important changes in the examination system that colleges had. Now exams are being conducted digitally which gives child the freedom of giving the test from residence too. There can also be an introduction of healthy hours in the examination system (especially for internal assessment) where we don't fix the day and time of exams, instead, we provide a span of time where the pupil can give exams as and when satisfied with the self-preparation. We need to make students learn the time management for the exams where they have so many distractions of the world to get carried away with. Google classrooms gives a way in which one can keep track of each student and help students do Ipsative evaluation. The practical exams can also be customized to get rid of 'mugging up' strategy implemented by child. The purpose is to build their strength and not to make them lose it by stressing them with a vast syllabus to study.

Not just students, but every teacher also needs an evaluation. Feedbacks should be taken for the teaching methodologies adopted. Implementation of creativity in teaching every small topic would help in growth of every teacher as an individual. Afterall, no one is perfect and no one learns everything by birth. It is the process of growth that makes the life worth.

To summarize, the evaluation methods need to assess the student in the most stress free & as natural way as possible. It should give students a chance to explore and challenge



their abilities, excelling in different ways irrespective of student being whether too intelligent or mediocre. Because every child is blessed with some quality. It is a teacher's responsibility to identify it and provide atmosphere that will nurture it. This will surely lead to a better India.

**Ms. Sayali Daptardar**

Assistant Professor, Department of Microbiology & Biotechnology



## Corona Pandemic work Mahad

Covid 19, a viral disease that is believed to be originated from the illegal wildlife trade in China, has created a global health crisis. We all are aware of the devastating effect this pandemic has caused. Recently vaccine for this disease have started to roll out, but a few months ago, very few research was done on this novel disease. Doctors and scientists were working tediously (and they still are) to learn more about this disease and try to find a possible cure.

I am from Mahad, a small town in the Raigad district and I am currently pursuing M.Sc. in Biodiversity, wildlife conservation and management at B. N. Bandodkar College, Thane. In March 2020, as Covid 19 was spreading in India the schools and colleges were shut down and hence I went to my native place in Mahad. Soon the disease started to spread rapidly in many cities of India, and a nationwide lockdown was imposed. Due to lockdown, many people in the cities lost their job and businesses. People working in cities like Mumbai and Pune started to return to their native places. This mass migration of people to their native places resulted in the spreading of infection even in the remotest villages. In Mahad, cases of covid 19 were increasing day by day, and like in most places there was lack of awareness regarding this disease, lack of testing kits and medical infrastructure, there were also lots of misconceptions regarding this disease.

The local health care workers and government officials were working tediously to stop the spread of this disease, along them, many social work organisations were also working for the same cause. Kailasvasi Kakasaheb Chitale Smruti Kendra, Mahad was one of the organisations working for reducing the spread of this disease in Mahad town. In July 2020, Kakasaheb Chitale Smruti Kendra had organised 'Break the Chain' campaign, which aimed to reduce the spread of Covid 19 infection by identifying the potential Covid 19 suspect by conducting thermal and oxygen level screening of the entire Mahad town. Although thermal and oxygen screening is not an alternative to PCR and antigen test for this disease and is certainly not much accurate, but in the early days of the Covid pandemic with lack of testing kits, it was the only way to identify the potential Covid infected person.

I am part of a Mahad based NGO called SEESCAP which primarily works for wildlife conservation but also work for disaster management and social causes. In early July we received information regarding the 'break the chain' campaign and immediately we

'teamSEESCAP', joined the campaign. The thermal and oxygen level screening program was organised from 21 to 25 July 2020, we were supposed to check the temperature and oxygen level of the entire Mahad town in three days followed by self-isolation. A total of 43 volunteers from Mahad including our team SEESCAP had registered for this campaign. Our stay during this campaign was arranged in B.S. Butala hall in Mahad with all the facility of isolation for each volunteer. On July 20, we all received training and guidance regarding the screening program by Dr Gavhankar from Mumbai, who had previously led a similar screening campaign in parts of Mumbai. Dr Nagarkar from Mahad provided the technical assistance needed during this program through the campaign and also regularly monitored the health of the volunteers. From July 21 to 23 the actual fieldwork for the screening began. All the volunteers were given separate neighbourhoods and wards where they would conduct the screening. Our fieldwork was in two shifts, one in the morning from 9 am to 1 pm and other in the evening from 4 pm to 6 pm. Conducting the screening while wearing the PPE kits was very difficult and uncomfortable especially during the afternoon hours, but every volunteer worked very hard and without any complaints. We visited every societies and houses in Mahad and screened the people by following proper social distancing protocols. Along with the screening we also created awareness among people regarding this disease, explained the importance of sanitization and social distancing and cleared any misconceptions regarding this disease. During this campaign, all the Mahadkars gave a good response to this campaign and cooperated well. Some even showered us with petals to appreciate our efforts. On our last day of fieldwork, some people who have missed the screening due to some reason visited us at the B. S. Butala hall and request for checking their temperature and oxygen level. On our last day. In three days we screened around 30000 people in Mahad. This screening program has slowed the spread of covid infection in Mahad and most importantly created awareness regarding sanitization and social distancing amongst the people. During this thermal screening program, I have met and got to know lots of young like-minded people who are willing to work selflessly for the betterment of society. We worked for around 6 -8 hours a day while wearing the PPE kits only for three days which was very difficult for us. By participating in this campaign the respect and appreciation for the health care workers, who are working tirelessly for many months wearing PPE kits and staying away from home have increased a lot. I appreciate all the efforts of the volunteers and organisers of this campaign as well as health care workers who are in the true sense the Covid warriors. Volunteering for the 'break the chain' campaign was a wonderful experience during which I have met lots of like-minded people and learned a lot

**Pranav K.  
M.Sc.**

## Suicide and Global Pandemic

The world has recently faced a huge global pandemic, COVID-19. In this pandemic, a huge increase in cases of suicide and other mental disorders like depression and anxiety have been recorded.

According to WHO, around 8 lakh people commit suicide annually, that is approximately one death per 40 seconds, and 3 thousand deaths everyday. In the individuals aging from 15-29 years, suicide is the second biggest cause of death. Around 45% of the people committing suicide are youths. These numbers have surged up a lot since the COVID-19 pandemic. Due to the pandemic, many people faced the problem of loneliness, which is one of the main reason behind suicide. Such numbers of suicidal deaths have an adverse effect on the development of the nation. According to WHO, suicide will be the biggest cause of death in humans by the year 2030.

So, how can we tackle with this issue? Firstly, people must be made aware of mental health. More and more awareness campaigns must be arranged by mental health organisations. Children should also be taught about mental health in their schools. This helps in reducing the stigma regarding mental health. This will also help a lot in understanding and detecting various mental illnesses in ourselves and people around us, as many of the suicidal deaths are due to lack of early detection of signs of suicide.

Secondly, if we observe any signs of suicide/ suicidal thoughts in our loved ones, we should not ignore it. We should talk to them, understand their feelings, problems faced by them. We should not judge them. We should give them moral support in such situations. If we feel that the person cannot be handled by us, we should approach a mental health professional as soon as possible. We should follow the guidance given by the professional.

More and more people should be encouraged to pursue their career as a mental health professional. If more and more people are engaged in this profession, it will lower the costs of mental healthcare facilities. According to studies, after receiving proper mental healthcare, expenses on other medical healthcare services have reduced to just 10%. Proper mental healthcare also helps in reducing risk of disorders related to heart, digestive system. Mental healthcare services have saved lives of many people by changing the outlook mentally ill people had. If you believe you or your loved one suffer from mental illness, do visit a mental health professional.

**Tejas Prakash Rupwate**  
FYJC/B

## The Cottage of Zeinberg

Gerome was a college going boy who lived with his parents in a small city of London. Once Gerome went for an excursion along with his college teachers and classmates. The excursion was in a forest area where the students had to study various species of plants along with bird watching. While walking, Gerome noticed a way which was covered with dry leaves and rose petals. Gerome found it fascinating. He asked his teacher about it. His teacher 'Miss Merry' warned him not to go there as the way leads to "THE COTTAGE OF ZEINBERG" which is considered haunted and those who go there between "1:30 to 5:00 a.m." in the night, never return. Gerome asked her more about the story of the cottage. She told him that Zeinberg was a scientist cum black magician who used to live there and do unusual things but one night he was declared missing. Nobody knows where he is. An



inspector who went there for investigation at 1:30 am. also never returned. Many people tried to reveal the secret but none of them came back. People who went there before or after this time didn't find any clue about the unusual events.

Gerome found it more fascinating and the very next night he went there with two of his best friends to find out the real secret. Three of them reached the cottage by following the weird way. It was 1:25 a.m. by that time. They saw that the door was locked from outside but as Gerome tried to push it the door surprisingly opened. They went inside. It was too dark. They could hear bats flying. The two friends were already scared and suddenly they heard a deep voice saying "its only a minute left for 1:30" which echoed the entire cottage. They both ran outside the cottage but Gerome did not. He had decided to find out the secret. Suddenly he could hear ticking of a clock and the entire room got filled with moonlight. He could now clearly see a huge clock showing 1:30 a.m., a broken bed and 2 chairs. He waited there for 10 mins and found out that all this is just a story and there is nothing unusual happening. He was very happy as he had revealed the truth that none could do. He stepped outside the door in excitement; and suddenly heard a very low sound of laughter. Gerome got a bit scared but he ignored the voice and reached home. But to his surprise he saw his parents outside the gate of his society talking to his friends about their whole plan. They all were worried and deciding what to do as he had not returned home. Gerome was a bit nervous and excited too. He went in front of them and said, "hey y'all , don't worry I am back and most importantly I found out the secret of the cottage that there is no secret of the cottage", but no one looked at him. He thought, they must be angry with him and so were ignoring him but as he tried to touch his friend he could pass through him. He was not able to touch anything and when he looked in the mirror he was stunned as he could not see himself. He was taken aback. He went back to the cottage running to find some clue. A deep voice came from the clock , "welcome Gerome, the secret of the



cottage is that people who come here between the particular time undergo the power of moonlight entering the cottage along with the magical aura of the COTTAGE making them invisible forever. Zeinberg's scientific skills and black magic is the reason for this phenomenon which even made him invisible. And now you can't even touch anyone. No one can feel your presence, you are the "79th" person who has found out this cottage's secret. All the missing people were not attacked by ghost but became invisible throughout their life and now you are also one of them. You are TRAPPED FOREVER!!

- Siddhant Ajay Pradhan  
SYBSC, Human Science



## The World After Corona

Telling the truth we can't imagine a world without corona or the world after corona is impossible. Telling the fact corona has spread in a worldwide level like tuberculosis and wiping it out completely is totally impossible mission.

Yeah we maybe able to get an immune against corona but this disease will now be in the top of the list of FASTEST CONTRACTING DISEASES replacing tuberculosis and plague and will be added to the viruses and bacteria which are surrounding us all the time but since we will be having an immune there is least chances of contracting and spreading of this virus.



If we want to wipe this out also ..then also it's far difficult than imagination since some part in the world or the other will be suffering from it...guys we all know that in

the world 'a tuberculosis patient dies in every 3 seconds' another phrase will be added to it 'a corona patient is admitted in every 5 sec' ...YES THATS TRUEE!!!

Now guys telling about the nature. after so called eradication of coronavirus 'People will start to hate each others BODY. at least upto 10 to 15 years people wont recover from this shock and fear to coronavirus or maybe till their life ends Telling about the hygiene people will from now take special care of their cleanliness and will remain far away from the people who will remain unclean and dirty.

In this condition the old technique of yoga have proven its effect. So after this situation

this will have a greater effect on people and all the people will take more involvement on increasing the practice of yoga and fitness.

Talking about the economy of the country and the world, the economy of the country and the world will suffer heavy loss due to treatment of the all the people who have suffered from this covid-19 due to the rupture of the business and exports which always was greater.

So it will take lots of time and property to restore the economic aspects and economical strength of each and every country after this situation income, support and improvement on GDP and on the economy of the country.

So from the situation it has been proved that our world and the human race will never be able to reach back to our earlier world but we can create a new and better world through the help of humanity and thus we may be able to create a new and better world but we won't be able to go back to the old world.

**Biswajit Panda**

## Unity in Diversity: Positioning India as a Leader in Emerging Global Scenario

Indians are the Italians of Asia and vice versa. Every man in both countries is a singer when he is happy, and every woman is a dancer when she walks to the shop at the corner. For them, food is the music inside the body and music is the food inside the heart. 'Amore' or 'Pyar' makes every man a poet, a princess of peasant girl if only for second eyes of man and woman meets. – Gregory David Roberts

It's rare to find a nation where 9 religions, 15 major languages with 844 different dialects are under one roof, one house: India. If we look at the top most performing countries, there isn't much diversity to compare against our country. Unites States of America and People's Republic of China have 4-5 major religions which is just a nominal number. India is seventh largest country, the largest running democracy and one of the most ancient civilisations. Ayurveda is practised since last 2500 years ago, Yoga since past 5000 years ago. Hinduism, Buddhism, Jainism, and Sikhism which were born in India is followed my 25% of world population.

Superpower countries are those which can influence and dominate its power to exert maximum benefits and affect huge decisions for the welfare of the nation. As a developing country, the Republic of India is considered as an emerging global leader. The factors that contribute India as a captain of the ship are huge population, youth mindset, continuous improvement in the digital era, balancing in the times of covid-19 pandemic, area-wise location benefit, diverse culture, traditions and heritage landmarks marking the tourism sector, making use of renewable resources, nuclear energy, nuclear fission in the era of advancing science and technology.

We are also upfront on our strong military power, strengthening our Air Force, Navy and Army with Paramilitary Forces making us the third largest defence force in the world. Integrated Guided Missile Development Program (IGMDP) and ISRO are one of the major space stations, launching pads which keep our nation's satellite technology at par with the best. India is becoming more and more digital with increasing awareness of cashless payments, encouraging start-ups, business ideas and small-scale industries to globalization. The Indian market is an eye of jewel for several top companies, private sectors for investment. Huge population creates endless demands which give birth to newer inventions as a necessity to the crowd.

Currently, India's population is 135.26 crores, against United States which is 32.72 crores. After China, India's growing human print is attracting more youth ratio than developed countries. This adds to humongous workforce, ascending human labour and necessary push to cultivate its own e-sources going hand in hand with new technology. With yearly 50,000 start-ups being bought to life; our country is a tech-savy hub after the foreign Silicon Valley. India even surpassed China as fastest growing economy market, it is also one of the second largest food producers of the world. The primary and tertiary sectors of country are in well shape to counter major developed nations. Indians are known for their heavy but grammatically correct English accent. This leads to large English-speaking skill (as a global language) alongside diversified regional languages to the citizen's profile.

With 4.36 million IT employee's workforce under belt, our country is two thirds ahead of workforce than USA. India is also called as 'Technology Superpower' for its deeper roots in IT industry than any other country. The Indian Government are acknowledging 'Make in India', 'Digital India' to progress towards digital era in full boost. India exports software to 90 countries. What's our country doing to meet the high-energy crisis? Building Nine Nuclear Power Reactors, several hydropower stations, extending its use for solar powers and creating awareness to use less fuel by conserve non-renewable resources! Biogas is used extensively to replace exhaustive fuels. Citizens are encouraged to save energy, use less fuel and rely on conscious use.

Isn't 6-8 million dollars being a lowest cost budget to send a spacecraft to Mars? Yes! When space agencies like NASA have funding over 20 billion, we manage our projects within 1 billion funding. Our country is independent, self-reliant in missile technology. India's contribution to space technology counts as a remarkable position. Our country as launched 319 satellites for 33 different countries. Helping other nations achieve their feat is also a sign of an emerging superpower nation. 90% launched Indian satellites are successfully launched in space, the success rate being high. From Aryabhata in 1975, RISAT-2BR1 in 2019, EOS-01 in 2020 the space voyage has been carried around for 44 years with 100 plus satellites. Profound project launches like Mars Orbiting Mission (MOM), Chandrayaan-1 are famous for their cost effectiveness and being successful in its first attempt. PSLV (Polar Satellite Launch Vehicle) is known for being one of the best launching satellites. Agni, Prithvi and Akash are the few of the launched missiles. India is also forefront in rapid mass-transit systems to adapt the growing need of transportation. Delhi Metro systems, connecting the sea link routes, airports and increasing local trains to welcome modernisation.

Other than massive skyscrapers, India's ethnicity is worldwide known for the heritage and cultural sites. Taj Mahal, one of the Seven Wonders of the World attraction receives 25,000 visitors a day. From Kanyakumari in the South, to Kashmir in North, India is a varied nation where visitors experience different cuisines. 16.91 lakh crore is the yearly tourism revenue. Thirty-eight World Heritage Sites attract massive crowds and provide employment in tertiary sector. People also view India as a yogic inspiration, promoting spiritualism and a portal to achieve mental freedom. 8 million foreign tourists visited India last year with ever increasing growth span. Due to being able to provide high quality medical facilities, medical tourism is increasing by 15% every year.

In the field of medicine, Ayurveda is traced back to 2<sup>nd</sup> millennium BCE from the Hindu holy Veda known as Atharvaveda. Notable works of Sushruta conducting the operations of urinary stones and brain surgeries 2600 years ago are well known of. It's been said that he could use ant heads to hold skin together when stitching and substituted what we know as anaesthesia with wine! Cure for leprosy and plastic surgery treatment were also found in our country. Ancient Indian medicine have traditionally carried out and learnt the usage of Anaesthesia, studied anatomy, embryology, digestion, metabolism, physiology, genetics and immunity way before than we can imagine. India ranks 154 among 195 countries on healthcare index. Our country can now successfully carry out complex procedures providing better health to the people. The number of doctors produced every year is one of the highest across globe.

Culture of India is a compilation of several layers and religions and celebrated with zeal and enthusiasm. The divorce rate is 1% compared to 40% in U.S. Indian families are known for joint family systems but certainly urbanisation is giving a way to nuclear families. Festivals along with three important national holidays including local traditions are honoured. Arithmetic inclined Bhaskaracharya calculated the time taken by the earth to orbit the Sun accurately. 106 was the largest number by Greeks whereas Hindus used numbers as big as  $10^{53}$  (i.e. 10 to the power of 53) with specific names as early as 5000 B.C. during the Vedic period. Indian Institutions like IITs, NITs, IIMs, IISER, IIIT, BITS Pilani, IIM, IISc, TIFR and AIIMS provide the best education in par with the top nations.

The Indian Army is the largest standing army in the world. Futuristic Infantry Soldier as a System (F-INSAS) is also now focused as coming-of-age modern infantry with equipped assets of aviation branches. Our country is also one of the largest contributors to UN peacekeeping missions as TCC. Operation Vijay, Operation Meghdoot, and Operation Cactus are the successful missions and operations. Indian air force is tapping its height on 5<sup>th</sup> generation stealth aircraft. It is the fourth largest air force in world. Our country is also proud to have the Indian Navy as the fifth largest in world. Advance submarines, with missile carrier warship and defence forces are eye catching facts. Indian Defence Forces also derive guerrilla tactics and use it to their advantage paying homage to the history. With brilliant defence, growing tourism, advance technology and space research with large human workforce, India is solidifying its stance as a global leader. Many nations are seeking help and assure their ties to our country. The Indian Army served an important role against insurgents. Various anti-terrorist groups were tackled during 26/11 Mumbai attack, solving



internal conflicts, fighting against Maoists, border disputes and situational crisis or disaster relief. India has huge arm imports around US\$16.97 billion to keep nation secure. Pokhran-1 tests and nuclear capabilities of India can serve and survive any catastrophe. Military strength also contributes to compare India as a frontrunner among the other nations.

What does that hold for the future of India? As a leading member in every sector, India could well reserve a spot in one of the top superpowers. There are few obstacles in the road course of the journey. Factors like political obstacles, poverty, economy downfall, insurgents and lack of international representation. Being a non-permanent member of UNSC, although it seeks the permanent seat in the councils through the four nations group. India lacks its ability to influence and direct its ideas on international platform. Unemployment is a huge barrier since 21.9% of people live below poverty line. The extent of poverty reduction is often debated by economists. Basic infrastructure like roads, highways, buildings, pathways lack the quality and are below par levels. India only had 4,885 km of central-divided expressways, while the U.S. and China have 90,000 km and 41,000 km of expressways. Inflation, Overheating area also the areas which could hinder our progress, RBI is making sure to match the production rate to match its GDP. India also have to import 70% of its energy. Being hugely depended on foreign oil, India is still managing to avert energy crisis. Literacy rate is low in our country amounting 77.7% There are social issues like child labour to deal with. Border tensions are also the area where China, Pakistan and the recurring instability needs to be reassured. Disputes over water with Bangladesh leads to distrust among neighbouring nations. In recent years, India has developed trust and relation with its neighbours. Communal violence and social groupism is also a big situation to deal for the nation. The crowd mindset, reverse discrimination and acceptance of the recent article section 377 and adapting to new societal terms is a challenge.

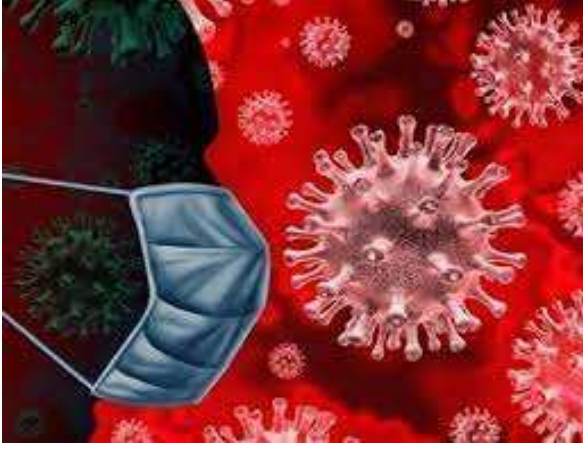
According to me, the result lies in effort between the citizens and the government. India is one of the emerging global risers on many aspects. If we as a citizen, respecting our rights, duties, tackling the covid-19 pandemic and economic down situations in a full spirit work towards making this our best country in every field, we would succeed. Our nation has co-operated with lockdown terms by staying at home and saving lives. India is now preparing to counter the biological pandemic by preparing the nation to stay in its optimal state. We should wear masks and abide by rules. Support the local artisans and help each other by taking care. Every individual can add difference to the superpower scenario. If we push India to better healthcare, better mindset, power to squash poverty, hunger and societal indifference, this battle is half won. Our country has achieved remarkable and 'impossible' tasks before (eradication of small pox, polio when the world was still coping up) and we can achieve more of it in further years. The contemporary feat achieved by our diversified country can push its ability to influence on global level. United we stand, India can surely achieve the position of global leader and superpower.

**Shatakshi Anil Jadhav**  
FYJC, D

## कोरोना आणि बरच काही...

३० जानेवारी २०२० ह्या दिवसाची कल्पना माणसाने कधी त्याच्या स्वप्नातही केली नसेल. ह्या दिवशी केरळमध्ये कोरोनाचा पहिला रुग्ण सापडला आणि त्या दिवसापासून कोरोनाचा विळखा भारतात पसरला. एखादा विषाणू हे अख्खं जग ठप्प करू शकतो. सगळ काही लॉक करेल असे वाटले नव्हते. जग लॉक नक्कीच झाल होत पण बंद नाही. ह्या कालावधीत जे काम आम्हाला सहजतेने जमतं तेच करायचं नव्हतं ते म्हणजे गर्दी.

ह्या काळात गमावणाऱ्यांनी खूप काही गमावलं मग ती माणस असो वा पैसा आणि कमावणाऱ्यांनी परिस्थितीचा



गैरफायदा घेऊन खूप काही कमावलं. खूप ठिकाणी लोकांची उपासमार झाली. मात्र या कोरोनाचे माणसांना खूप काही शिकवलं. दैनंदिन जीवनात आपण सगळे आपआपल्या कामात मग्न झालेलो परंतु लॉकडाऊनमुळे आपल्याला कुटुंबाबरोबर वेळ घालवता आला. आपली नाती काय असतात त्याची जाणीव झाली. काही जुन्या गोष्टींना उजाळा मिळाला... बरच काही परंतु माणसाने मी पणा करता-करता निसर्गाशी स्पर्धा केली. माणसाने प्रगती नक्कीच करावी पण तुलना नाही आणि माणूस इथेच चुकला. स्वतःच्या स्वार्थीपणामुळे. माणसाने नेहमी स्वतःचा विचार केला. अस म्हणतात 'पॉझिटीव्ह' या

शब्दात खूप ताकद असते परंतु कोरोनाच्या काळात हाच शब्द निगेटीव्ह वाटायचा, पण पॉझिटीव्ह या शब्दात किती ताकद असते हे देवासारख्या डॉक्टरांनी व जनसेवा करणारे आपले पोलीस की ज्यांना आपण पांडु म्हणतो त्यांनी ह्या संकटात पांडुरंगाचे दर्शन दिलं तसेच आपले सफाई कामगार आणि इतर अधिकारी ह्या सर्वांनी दाखवून दिलं. जर का ह्यांनीसुद्धा स्वार्थीपणा दाखवला असता तर? बोलतात ना, हाताची बोटं एकसारखी नसतात तसचं काहीसं...ह्या काळात आपला माणूस मरत असताना त्याला पाणी सुद्धा न देता येणे ही निर्दयी वेळ माणसाने स्वतःवरच स्वतःने ओढवून घेतली.

माणसाने त्याची मर्यादा ओलांडली व त्याचे परिणाम हे निसर्गाने दाखवले. गरज नसताना एखादया गोष्टीचा अपव्यय कसा करावा, हे माणसाकडून शिकावे. ह्यालाच जबाबदार म्हणतात का? वाऱ्याची झुळूक आल्यावर झाडाची फांदीसुद्धा वाकली जाते, तर निसर्गासमोर माणसाचा अहंकार काय आहे? लोकसंख्या वाढवता-वाढवता माणसाने वन संख्याही वाढवली तर खूप बरं होईल ! माणूस येताना एकटाच येतो आणि जाताना सुद्धा एकटाच जातो, परंतु त्याचा स्वार्थीपणा आणि अहंकार हा जन्म आणि मृत्यू ह्या कालावधीतच राहतो, तर मग हा स्वार्थीपणा कशाला? जन्माला मृत्युची साथ असतेच हे माणसाला कधी कळणार? आपण खरचं जबाबदार आहोत का?

दिक्षा गवस

## कोरोनाने मला काय शिकवले...?

कोरोनाने मला काय शिकवले याविषयी काय बरं सांगावे? 'न भूतो न भविष्यति ।' अशी ही कोरोना नामक महामारी मार्च महिन्यात भारत देशाच्या दारी येऊन ठेपली. आपण स्वप्नात सुद्धा विचार केला नसेल अशी परिस्थिती आपल्या समोर उभी राहिली होती. आपली दैनंदिन जीवनाची घडी विस्कटली होती. इतकेच नव्हे तर आम्हा दहावीच्या विद्यार्थ्यांचा भूगोलाचा पेपर सुद्धा रद्द करण्यात आला होता. टाळेबंदीमुळे कित्येक नागरिक बेरोजगार झाले होते. संपूर्ण जग कोरोनाच्या कचाट्यात सापडले होते. सर्व नागरिक कोरोनाच्या या वैश्विक महामारीमुळे संपूर्ण जगाच्याच नाकी नऊ आले होते. कोरोनाने सकारात्मक आणि नकारात्मक दोन्ही अंगाने आपल्या सर्वांच्याच आयुष्यात प्रचंड बदल घडवले.

भारताचे पंतप्रधान नरेंद्र मोदी यांनी देशाला संबोधित करताना कोरोना हे कधीही न पाहिलेले संकट असल्याचं म्हटलं. याबरोबरच भारतासारख्या विकसनशील देशासाठी प्रगतीची उत्तम सुवर्णसंधी असल्याचे नमूद केले. प्रत्येक गोष्टीला नाण्याप्रमाणे दोन बाजू असतात. कोरोनाचे देखील असेच काहीसे आहे. म्हणतात ना काही वादळे ही विचलीत करण्यासाठी नव्हे तर वाट मोकळी करण्यासाठी येत असतात. आपत्ती तुम्हाला खूप काही शिकवते असं म्हणतात आणि तेच कोरोनाचया संकटाने केलंय. कोरोनाने जगभरात लाखो लोकांना धरलं खरं, पण कोरोनाने सर्वांना अनेक गोष्टी शिकवल्या देखील आहेत. आपल्या जगण्याची पद्धतच कोरोनाने बदलून टाकली आहे. आपल्या विचारसरणीवर व वागणूकीवर देखील या संकटाने बराच प्रभाव टाकला आहे. असा एखादा आजार किंवा जगभरात थैमान घालणारा विषाणू आपल्याला काही शिकवण देऊ शकतो हे ऐकूनच अनेक जण अचंबित होतील. आणि काहींना तर राग सुद्धा येईल पण खरोखरच आपण गांभीर्याने विचार केला पाहिजे भूतकाळ कसाही असला तरी भविष्यकाळ हा आपलाच असतो. आपल्याला फक्त सकारात्मक विचार करून लढायचे व घडायचे असते.

कोरोनाने प्रथम कोणती शिकवण दिली ती म्हणजे निसर्गाला कधीही गृहीत धरू नये. निसर्गाचा कोप होऊन कधीही तो रौद्ररूप धारण करू शकतो. मानव नेहमीच स्वतःच्या प्रगतीचा विचार करत असतो आणि त्या दिशेन मेहनत करत पाऊलवाट काढत असतो. पण प्रगती करताना अनेक महत्त्वाच्या गोष्टी आपण नष्ट करत आहोत किंवा हानी पोहोचवतोय याकडे मात्र मानव दुर्लक्ष करतो. शहरांची सध्याची परिस्थिती अशी आहे की जिथे जागा मोकळी दिसेल तिथे फक्त उंचच उंच गगनचुंबी इमारती दिसत आहे. शहरीकरणासाठी मोठ्या प्रमाणात झाडांची कत्तल केली जात आहे. आज भारताची राजधानी दिल्ली सकट मुंबई, पुणे, बंगळूर यासारखी मोठमोठी शहरे वायू प्रदुषणाचा सामना करत आहेत. जलप्रदुषण देखील भलीमोठी समस्या आहे. मानवाने निसर्गाचे अमाप नुकसान केलंय. प्रदुषणामुळे ग्लोबल वॉर्मिंग वाढले असून त्याचे गंभीर परिणाम दिसू लागले आहेत. याचे ज्वलंत उदाहरण म्हणजे देवभूमी म्हणून ओळखल्या जाणाऱ्या उत्तराखंडमध्ये तापमानातील होणाऱ्या वाढीमुळे बर्फ वितळून हिमस्खलन झाल्यामुळे अलकनंदा नदीला महापूर आला. या घटनेमुळे भरपूर नुकसान झाले व जीवितहानी झाली. या सर्वाला निसर्ग नव्हे तर मानव आणि मानवाने केलेल्या चुकाच कारणीभूत आहेत. निसर्गाने त्याचे रौद्र रूप दाखवायला सुरुवात केली आहे. आपण आता तरी आपले डोळे उघडले पाहिजे नाहीतर निसर्गाचे याहूनही अधिक भयंकर रूप आपल्याला

अनुभवायला लागू शकतं. पण आता यासर्वात कोरोनाने आपल्याला काय शिकवले असा प्रश्न नक्कीच तुमच्या मनातून डोकावत असेल. त्याचे उत्तर अगदीच सोपे आहे. निसर्गाला त्रास दिला की तो देखील तुम्हाला त्रास देऊन कर्जाची परतफेड करणार. म्हणतात ना 'जैसी करनी वैसी भरनी ।' म्हणूनच हीच महत्त्वाची आहे की निसर्गाला अजिबात गृहीत धरू नये. निसर्गापुढे आणि दैवापुढे कोणाचेही चालत नाही असे म्हणतात आणि ते तंतोतंत खरे आहे. म्हणून निसर्गाची काळजी घ्या, निसर्ग अभ्यासा, निसर्गावर प्रेम करा हा सर्वात मोठा आणि महत्त्वाचा धडा कोरोना महामारीच्या संकटाने आपल्याला शिकवला आहे. टाळेबंदीच्या काळात प्रदूषणात कमालीची घट झाल्याचे आढळून आले. जणू काही त्या काळात निसर्गाने सुटकेचा श्वास सोडला होता.

कोरोनाने आपल्याला नाती जपण्याची शिकवण दिली. नोकरी आणि पोटापाण्यासाठीच्या धावपळीने जीवनशैली अतिशय दगदगीची, धकाधकीची बनली होती. त्यामुळे घरच्यांना वेळ देणे, एकत्र भोजनाचा आस्वाद घेणे, दिवसभरातील गप्पागोष्टी करणे, सुख-दुःख मांडणे, एकत्र सण-समारंभ साजरे करून मज्जा करणे हे सर्वच दुर्मिळ झाले होते. आई-बाबा दोघेही नोकरी करत असल्यामुळे लहान मुलांशी संवाद साधण्यापुरता सुद्धा पुरेसा वेळ त्यांना मिळत नसे तसेच घरातील ज्येष्ठ व्यक्तींना सर्वात जास्त गरज त्यांच्या या वृद्धावस्थेत असते. कोरोनामुळे लोक व्यथित नक्कीच झाले पण असले तरी टाळेबंदी झाल्यामुळे कोरोनामुळे उत्पन्नच्या संधी प्राप्त झाली. वेळच वेळ शिल्लक राहिल्यामुळे कुटुंबातील सदस्यांना भरपूर वेळ देणे शक्य झाले. पुन्हा एकदा कुटुंबातील सदस्य जुन्या रूढी परंपरेनुसार एकत्र भोजन करण्याचा परमानंद लुटू लागले. सुख म्हणजे नेमकं काय असतं? तर याचे उत्तर आहे सहकुटुंब एकाच वेळी जेवण करणे. खरोखरच कोरोनाने आपल्या सर्वांनाच नात्यांचे महत्त्व आणि आपले कुटुंब आपल्या जीवनाचा किती महत्त्वाचा भाग आहे हे आपल्याला पटवून दिले.

कोरोनाने आपल्याला स्वच्छता सुद्धा अतिशय महत्त्वाची बाब आहे हे शिकवले. देशात आणि जगात कचऱ्याचे प्रमाण अतिशय मोठे आहे. पण त्यासाठी होणाऱ्या उपाययोजना मात्र अतिशय थोड्या प्रमाणात आहे. आपल्याला सर्व माहितीच आहे की स्वच्छता असल्यास कोणताही आजार आपल्या जवळ येत नाही. असे असले तरीही अस्वच्छता आपल्याला दिसून येतेच. अनेक जण फक्त स्वतः आणि स्वतःचे कपडे स्वच्छ ठेवतात. पण आजूबाजूचा परिसर स्वच्छ रहावा या हेतूने कोणीच पुढचे पाऊल टाकत नाही. स्वच्छता राखली तर त्याचा फायदा हा दुसऱ्या तिसऱ्या कोणाला होणार नसून संपूर्ण मानव जातीलाच होणार आहे. कोणताही आजार पसरण्यासाठी अस्वच्छता अतिशय पोषक आहे. कोरोनाने लोकांना सतत हात धुण्यास शिकवले. मास्क देखील लोक घालू लागले आहेत. सर्वजण टाळेबंदीमुळे घरी असल्याने आपोआपच संपूर्ण निसर्ग स्वच्छ झाला. कचऱ्याचे प्रमाण सुद्धा कमी झाले. थोडक्यात काय तर कोरोनाने सर्वांनाच स्वच्छतेची शिस्त लावली असे म्हणल्यास काही वावगे ठरणार नाही. हीच सवय यापुढेही अशीच पाळली पाहिजे.

कोरोनाने आपल्याला स्वतःच्या तब्येतीची काळजी घ्यायला शिकवले. विचित्र जीवनशैली, वेळी-अवेळी खाणे अशा अनेक गोष्टींमुळे सध्या देशातील लोकांच्या तब्येतीचा स्तर खालावला आहे. फास्ट फूट, तेलकट पदार्थ या सगळ्या गोष्टींमुळे आजार होण्याचं प्रमाण वाएलं आहे. रोगप्रतिकार शक्ती कमी असणाऱ्या, मुधमेह, रक्तदाब यासारखे आजार असणाऱ्या लोकांना कोरोना विषाणूने आपले लक्ष्य केले आहे. आपण सर्वांच्याच निरीक्षणात आले



असेल की कोरोना काळात इतर लहानमोठे आजार जणू धूसरच झाले होते. याचे मुख्य कारण म्हणजे टाळेबंदीच्या काळात आपण फक्त घरी शिजवलेले बाहेरचे पदार्थ आपण खात नव्हतो. 'जिभेची टेस्ट, पोटात गेले वेस्ट, आजार बनले गेस्ट, डॉक्टर करत राहतात टेस्ट, तेव्हा आपले पैसे होतात वेस्ट म्हणूनच घरचे अन्न आहे सगळ्यात बेस्ट', हे तुम्हाला आता शंभर टक्के पटले असेलच. कोरोना विषाणूचा संसर्ग रोखण्यासाठी रोगप्रतिकार शक्ती चांगलीच असावी लागते. म्हणजेच कोरोनाने सर्वांना तब्येतीचं महत्त्व शिकवलं. तब्येतीची काळजी घेणे किती महत्त्वाचे आहे हे देखील या विषाणूने संपूर्ण जगाला दाखवून दिले आहे. मग आयुष्यभर जर आपण ही शिकवण ध्यानात ठेवली तर सर्व प्रकारच्या व्याधी आणि रोगांपासून दूर राहण्यास आपण सक्षम होऊ शकतो.

कोरोनाने आपल्याला प्राणिमात्रांवर प्रेम करायला शिकवले. कोरोनाच्या पार्श्वभूमीवर सर्वत्र सुरु असलेल्या टाळेबंदीमुळे निसर्गाचे चक्र सुधारले आहे. प्रदुषणात कमालीची घट झाली होती म्हणून वन्य जीवन देखील आनंदी असल्याने अनेक ठिकाणी आपण त्यांना पाहिलयं. वन्य प्राणी मुक्त संचार करू लागले होते. पाळीवप्राणी असो अथवा वन्यप्राणी सर्वच जीवनचक्राचा एक अमूलाग्र आणि अतिशय महत्त्वाचा भाग आहेत. अन्नसाखळीचा ते भाग असल्याने त्यांची संख्या कमी झाली तर जीवनाचा समतोल बिघडतो आणि म्हणूनच त्यांची काळजी घेणे हे आपल्या मानव जातीचे कर्तव्य आहे. कोरोनामुळे झालेल्या लॉकडाऊनच्या काळात प्राण्यांच्या कत्तलीमध्ये देखील घट झाल्याचे दिसून येत आहे. सर्वांना आनंदाने एकमेकांची काळजी घेऊन कोरोना गेल्यावरही एकत्र रहावे अशीच शिकवण कोरोनाने आपणा सर्वांना दिली.

कोरोनाने आपल्याला माणूसकी जपायला शिकवले. आपणा सर्वांनाच हे माहित आहे की कित्येक नागरिक टाळेबंदीच्या काळात बेरोजगार होते. हातावर पोट असलेल्या कित्येक जणांचे जेवणाचे हाल होत होते. त्याकाळी कोरोनाने माणसातील लोप पावत चाललेल्या माणूसकीला जागे केले. अनेक आमदार, नगरसेवक, मंत्र्यांनी अन्नधान्याचे वाटप केले. अनेक बेघर रहिवास्यांना आसरा दिला. तसेच सोनू सूद सारख्या बॉलिवूड कलाकारानेही मसिहा बनून सर्वांची मदत केली. तसेच टाळेबंदीमुळे अडकलेल्या विद्यार्थ्यांना सोनू सूद ने त्यांच्या गावी पाठवण्याची व्यवस्था केली. तसेच रोजगार मोठ्या प्रमाणात उपलब्ध होण्यासाठी ॲपची निर्मिती केली. अशा अनेक तऱ्हेने कोरोनाने आपल्याला माणूसकी जपायला शिकवले.

कोरोनाने आपल्याला पैशाची बचत करायला शिकवले. वेळप्रसंगी कधीही पैशांची गरज भासू शकते व बचत करणे किती गरजेचे आहे ते कोरोनाने शिकवले. आपल्याला प्रत्येक दिवस खास समजून जगण्याची उमेद दिली. तसेच नेहमीच सकारात्मक राहून आशावादी असावे, आलेल्या समस्येवर न डगमगता ताठरपणे उभे राहावे हे आपल्याला कोरोनाने शिकवले. तसेच जीवनातील प्रत्येक क्षण मनासारखा जगायचा, कारण गेलेली वेळ पुन्हा येत नाही. कोरोनाने आपल्या अंगी लपून बसलेल्या कला गुणांना चालना दिली. लहानांपासून मोठ्यांपर्यंत सर्वांनाच त्याच्यातील कला, हुशारी या कालावधीत कळून चुकली. अनेकांनी आपल्या कलेला आपल्यातील गुणांना व्यवसायात परिवर्तित केले. तसेच कोरोनाने लहान-मोठा, गरीब-श्रीमंत हा भेदभावच संपुष्टात आणला. अगदी धारावी झोपडपट्टीत राहणाऱ्या नागरिकांपासून ते अमिताभ बच्चन यांना सुद्धा कोरोनाने आपल्या जाळ्यात ओढले.

कोरोनाने आपल्याला लहान-सहान गोष्टींना महत्त्व न देता त्यांना तुच्छ समजू नये हे शिकवले. आपण मुंगीलाही लहान समजू नये कारण जेव्हा ती हत्तीच्या कानात जाते, तेव्हा बलाढ्य हत्ती सुद्धा कासावीस होतो. पण हा कोरोना विषाणू तर हजार पटीने मुंगीपेक्षा लहान आहे, त्याला हलक्यात घेऊन चालणार नाही आणि कोरोनाने आपल्याला महत्वाची शिकवण दिली असेल ती म्हणजे 'आत्मनिर्भर भारत'. पंतप्रधान मोदींनी सर्वांनाच 'व्होकल टू लोकल' होण्याचा सल्ला दिला. भारत आत्मनिर्भर होण्याच्या बाबतीत दिवसेंदिवस एक एक पाऊल पुढे टाकत चालला आहे. जगभरात भारताने तयार केलेल्या 'कोव्हॅक्सिन' आणि 'कोव्हिशिल्ड' चीच चर्चा होत आहे. भारत आता प्रगतीचे उच्चांक गाठत आहे.

कोरोना या महामारीच्या संकटात मदतीस धावून आलेल्या प्रत्येक अत्यावश्यक सेवेतील कर्मचाऱ्यांचे नगरसेवकांचे, मंत्र्यांचे, पंतप्रधानांचे मानावे तितके आभार कमीत आहेत. प्रत्येक गोष्टीची आपण चांगली बाजू पाहण्यात आणि कोरोनाने आपल्याला जे धडे अथवा शिकवण दिली आहे त्यावर गांभीर्याने विचार करून ती मानवाचे प्रतिनिधित्व करून भविष्यात अमलात आणू या!

चैताली पाटील

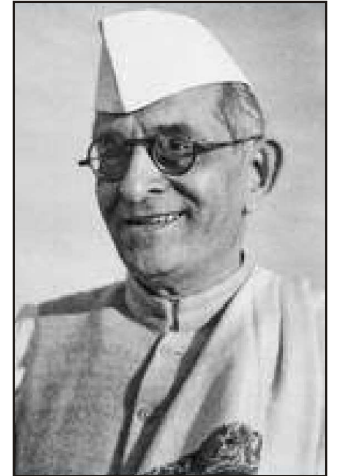
FYBSc., Human Science



## कन्हैयालाल मुनशी - एक अलौकिक व्यक्तिमत्व

“थोर महात्मे होऊन गेले, चरित्र त्यांचे पहा जरा  
आपण त्यांच्या समान व्हावे, हाच सापडे बांध खरा !”

भारतभूमी ही नररत्नांची खाणे आहे या भूमीत अनेक थारे रत्ने जन्मास आली. परंतु एक नररत्न समुद्रकिनाऱ्यावरील एका छोट्याश्या कवचाप्रमाणे बाजूला फेकले गेले पण खरी ध्येयवादी व्यक्ती विसरली जात नाही म्हणूनच स्वातंत्र्य लढ्यात मोलाची भूमिका बजावणारे, अष्टपैलू व्यक्तिमत्व असलेले आणि सर्व रत्नांचा मेरुमणी शोभावा असे एक रत्न भारतभूमीत जन्माला आले ते म्हणजे कन्हैयालाल मलिकलाल मुनशी उर्फ के. एन. मुनशी ! मुनशी हे एक बहुगुणी असे अद्वितीय व अपूर्व व्यक्तिमत्व होते. मुनशी यांची तत्वे म्हणजे भारतीय जीवनातील परंपरांचे, नैतिकतेचे व तात्विकतेचे सारच होय. त्यांच्या व्यक्तिमत्त्वाचे अनेक पैलू होते. सर्जनशील लेखक, संविधान निर्माते, स्वातंत्र्यसेनानी, वकील, शिक्षणतज्ञ, साहित्यकार, एक सक्षम, प्रशासक अशा अनेक प्रतिभावंत व्यक्ती एकट्या के. एन. मुनशीमध्ये अगदी यशस्वीपणे घडल्या होत्या.



के. एन. मुंशी यांचा जन्म ३० डिसेंबर १८८७ रोजी भरुच येथे झाला. त्यांचे उच्च शिक्षण बडोदा महाविद्यालयात झाले तेथे त्यांचे एक शिक्षक श्री. अरविंद घोष यांनी त्यांच्यावर खोल छाप पाडली. ते पेशाने वकील होते. बीए आणि एल.एल.बी. च्या परिक्षा उत्तीर्ण झाल्यानंतर १९०७ साली ते मुंबईला दाखल झाले नंतर त्यांनी समाज सुधारणेत

विशेषतः महिलांच्या हक्क आणि जातिभेद या क्षेत्रात आपला आवाज उठवला.

मुनशी यांनी 'एकच लारा समोर आणि पायतळी अंगार' या कुसुमाग्रजांच्या उक्तीप्रमाणे इंग्रजांच्या जुलमी राजवटीतून भारतमातेची मुक्तता करण्यासाठी स्वतंत्रता संग्रामात मोलाची कामगिरी बजावली आहे. त्यांनी ब्रिटीशांनी ताब्यात घेतलेल्या अनेक स्वातंत्र्य सैनिकांना कायदेशीर सल्ला दिला आणि होम-रूल चळवळ, बार्दोली सत्याग्रह, मीठ सत्याग्रह, भारत छोडो आंदोलन इत्यादी संबंधित सामाजिक सुधारणांच्या विविध उपक्रमांमध्ये भाग घेतला. १९२७ मध्ये ते मुंबई विधानपरिषदेवर निवडून आले. परंतू पुढच्याच वर्षी त्यांनी या पदाचा राजीनामा दिला आणि गांधीजींच्या नेतृत्वाखाली बार्दोली सत्याग्रहात ते सामील झाले आणि बापूजींनी आयोजित केलेल्या निषेध मोर्चात विश्वासू लेफ्टनंट म्हणून काम केले. तसेच १९३० साली त्यांनी राष्ट्रीय काँग्रेसमध्ये दाखल होऊन मीठाच्या सत्याग्रहात भाग घेतला. त्याबद्दल त्यांना सहा महिन्यांच्या तुरुंगवासाची शिक्षा सुनावण्यात आली. पुन्हा १९३२ मध्ये त्यांना विजापूर येथे दोन वर्षांचा कठोर तुरुंगवास भोगला अशा प्रकारे त्यांनी भारतभूमीला परकीय सत्तेच्या श्रृंखलातून मुक्त करण्यासाठी महत्त्वाचे योगदान दिले.

स्वातंत्र्योत्तर काळातसुद्धा मुंशी यांनी देशसेवेचे कार्य सुरुच ठेवले. स्वातंत्र्यानंतर १९५३ सालापर्यंत त्यांनी कृषीमंत्री व अन्नमंत्री म्हणून काम पाहिले. एक राजकारणी होण्याबरोबरच मुंशी पर्यावरणवादी देखील होते. ते कृषीमंत्री असताना वन महोत्सवाचे क्षेत्र वाढवण्यासाठी त्यांनी १९५० पासून जुलै महिन्यातील पहिल्या आठवड्यात वन महोत्सव साजरा करण्याची मुहूर्तमेढ रोवली त्याचप्रमाणे स्वातंत्र्योत्तर काळात बी.आर. आंबेडकर यांच्या अध्यक्षतेखाली भारतीय राज्यघटनेच्या मसुदा समितीचे सदस्य होऊन भारतीय राज्यघटना निर्मितीत आपली भूमिका पार पाडली. ते मसुदा समितीसह १६ समित्यांचे आणि उपसमित्यांचे सदस्य होते त्यांचे काही हस्तक्षेप हे मूलभूत अधिकार, नागरिकत्व आणि अल्पसंख्याक हक्कांशी संबंधित होत. मुनशी हे काँग्रेस पक्षाच्या तिकिटवरून मुंबईहून मतदार संघात निवडून आले होते ते विधानसभेच्या सर्वात सक्रिय सदस्यांपैकी एक होते. तसेच त्यांनी १९५२ ते १९५७ या काळात उत्तर प्रदेशच्या राज्यपाल पदाची जबाबदारी समर्थपणे सांभळली. स्वातंत्र्यानंतर त्यांनी सरकारचे प्रतिनिधी म्हणून हैदराबाद रियासत मुक्त करण्यात सरदार पटेल यांचे पूर्ण समर्थन केले. ते १९३७-१९३९ मध्ये महाराष्ट्र राज्याचे गृहमंत्री होते. तसेच मुनशी १९४७ साली भारतीय ध्वज निवडणाऱ्या अँडहॉक फ्लॅग कमिटीवर होते ते १९५७ ते १९६० या काळात भारतीय कायदा संस्थेचे कार्यकारी अध्यक्ष होते. अशाप्रकारे मुनशी एक अट्टल राजकारणी होते.

के.एम.मुनशी यांची सर्वात महत्त्वाची प्रतिमा म्हणजे शिक्षण क्षेत्रातील एक शिक्षणतज्ञ ! सर्व जाती - जमातींच्या मुलांना सुखाने राहून विद्यार्जन करता यावे म्हणून त्यांनी मुंबई येथे 'भारतीय विद्या भवनाची' स्थापना केली आणि त्यांच्या मृत्यूपर्यंत त्यांनी या संस्थेचे अध्यक्ष म्हणून काम पाहिले त्यांनी या भवनाचे सांस्कृतिक, शैक्षणिक, साहित्यिक सेवा देण्याच्या प्रमुख संस्थेत रूपांतर केले हे भवन म्हणजे भारतीय संस्कृतीचे पूर्णमिलन ! भारतीय संस्कृतीच्या सालंकृत तत्त्वांचा आणि उदात्त विचारांचा प्रसार आणि प्रचार करण्याच्या दृष्टीने मुनशी यांनी या संस्थेची स्थापना केली. त्याचप्रमाणे त्यांनी पारंपारिक पद्धतीनुसार संस्कृत आणि प्राचीन हिंदू ग्रंथ शिकविण्यासाठी

मुंबादेवी संस्कृत महाविद्यालयाची स्थापना केली. तसेच भवन्स कॉलेज, हंसराज मोरारजी पब्लिक स्कूल, राजहंस विद्यालय राजहंस बालवटिका आणि पंचगणी हिंदू शाळा या संस्थांच्या स्थापनेत मुनशी यांनी महत्त्वाचे काम केले. ते १९४८ ते १९७१ या कालावधीत बिल्गा एज्युकेशन ट्रस्टचे विश्वस्त होते. अशा प्रकारे मुनशी यांची शिक्षण क्षेत्रातील कामगिरी अभूतपूर्व आहे.

कादंबरी आणि साहित्य लेखन हे मुंशी यांच्या संपन्न कलाजीवनाचे खास विशेष आहेत. ते गुजराती भाषेचे सर्वोत्कृष्ट लेखक होते. त्यांच्या साहित्यसंपदेत कादंबरी, लेख, नाटक, कथा असे अनेक वैभवशाली पैलू होते. त्यांना गुजरातमधील एक महान साहित्यिक म्हणून ख्याती मिळाली होती. हिंदी, इंग्रजी आणि गुजराती भाषेत त्यांनी सामाजिक, पारंपारिक आणि ऐतिहासिक लिखाण केले. पाटणचा महिमा, गुजरात-ला-नाथ, राजाधिराज, माररी कमला, पृथ्वीवल्लभ, लोमहर्षिणी, लोपामुद्रा अश्या एकापेक्षा एक आणि अनेक कादंबऱ्या लिहील्या. ते गांधीजींनी संपादित केलेल्या 'यंग इंडिया'चे सह-संपादक होते यासह ते गुजराती, आर्यप्रकाश, नवजीवन इत्यादीचे संपादक होते. १९५४ मध्ये त्यांनी गुजराती भाषेत 'भार्गव' मासिक सुरु केले. त्याचप्रमाणे त्यांनी प्रेमचंद यांच्या सहकार्याने प्रतिष्ठित हिंदी मासिक 'हंस' चे संपादन केले ते संस्कृत विश्व परिषद, गुजराती साहित्य परिषद आणि हिंदी साहित्य सम्मेलनाचे अध्यक्ष होते. मुंशी यांनी साहित्यक्षेत्रात विपुल लेखन करून आपला ठसा उमटवला.

मुंशी यांचे वर्तन प्रांजळ होते विचार पारदर्शक होते त्यांनी या देशासाठी, मानवतेसाठी जे जे केले ते न्याय भावनेतून, कर्तव्य भावनेतून आणि निरपेक्ष सेवाभावातून. म्हणूनच,

दिव्यत्त्वाची जेथे प्रचिती,  
तेथे कर माझे जुळती ।

एक प्रशासक, साहित्यिक, शिक्षणतज्ञ, वकील त्यांच्यात दडलेल्या भूमिका आयुष्यभर विविध माध्यमातून वठविताना त्यांनी आपले जीवन हीच एक आनंदयात्रा बनवली आणि या यात्रेत सामील झालेल्या असंख्यांना त्यांनी आपल्या असामान्य प्रतिभेचा साक्षात्कार घडवला आणि अशा आनंदाच्या डोहात दुंबणारी व इतरांनाही त्या डोहात दुंबणारी ही मुंशी नावाची मैफल १९६० ला संपली म्हणजेच त्यांनी राजकारणातून संन्यास घेतला असे चतुरस्त्र व्यक्तिमत्व असलेल्या मुंशी यांनी ८ फेब्रुवारी १९७१ ला अखेरचा श्वास घेतला. म्हणूनच थोडक्यात काय तर

“थोर कार्य के. एम. मुंशी यांचे,  
कल्याण भारतभूमीचे, प्रयत्न त्यांचे,  
त्यांनी केले आपल्यावर उपकार,  
मानू त्यांचे शतशः आभार !”

श्रेया नाडकर्णी  
SYBSc., MS



## निसर्गाचा मोकळा श्वास

आपल्या आजच्या दगदगीच्या धावपळीच्या शहरातील जीवनात मोकळा श्वास मिळणे अशक्यच आहे. याचे कारण आहे वाढते प्रदुषण आणि पर्यावरणाचा न्हास. त्याचबरोबर दाटीवाटीने राहणे, असंख्य कारखाने, भ्रमसाट रस्त्यावरील वाहतुक या सर्व बाबींमुळे आजपर्यंत मानवालाच काय तर निसर्गालासुद्धा मोकळा श्वास घेता आला नव्हता. परंतु सध्या आपल्या सर्वांच्याच नाकी नऊ आणणारा विषाणु म्हणजेच कोरोना वैश्विक महामारीमुळे सर्व व्यवहार, कामे ठप्प झाली आहेत आणि पर्यायाने जनतेला घरीच मुक्काम करावा लागला आहे. एका बाजूला कोरोनामुळे प्रचंड हाहाकार उडाला असताना दुसऱ्या बाजूला मात्र निसर्गाने दीर्घ मोकळा श्वास घेण्यास प्रारंभ केला आहे.

हळूहळू वातावरणात अविस्मरणीय बदल घडून येताना दिसत आहे. पहाटेच्या चिमण्यांच्या किलबिलाटाने आणि नानाविध प्रकारच्या पक्ष्यांच्या कर्णमधुर आवाजाने दिवसाची सुरुवात अगदी चित्तप्रसन्न व मनमोहक होत आहे. जणू



या पक्ष्यांच्या रुपाने निसर्गच मंजूळ गाणी गात प्रदुषणापासून मुक्त झाल्याचा आनंद व्यक्त करत आहे. विविध दुर्मीळ पक्ष्यांचे दर्शन शहरात घडून येत आहे आणि आश्चर्याची बाब म्हणजे नेहमी गजबजलेल्या रस्त्यावर चक्क पक्षी उतरलेले दिसून येत आहेत. सर्व औद्योगिक कारखाने व वाहने बंद असल्याने हवेच्या प्रदुषणात कमालीची घट झाली आहे. आकाश अगदी स्वच्छ व निरभ्र झाले आहे. या लॉकडाऊनच्या काळात जीवनाच आणि निसर्गाच्या सहवासाचा कोणी मनभरून आनंद लुटत असतील ते म्हणजे गगननिवासी पक्षी खरोखरच आताच्या घडीला माणसांना

पक्ष्यांचा हेवा वाटत आहे.

निसर्गाला आणखी एक दिलासा देणारी बाब म्हणजे जलप्रदुषणात खूप घट झाली आहे. सर्व नद्या, झरे, तलाव, सरोवरे व समुद्र अगदी स्वच्छ व सुंदर झाले असून स्वच्छंदपणे वाहत आहेत. ज्या समुद्र चौपाट्यांच्या किनाऱ्यावर नेहमी कचरा व भेळचे पुढे सापडायचे त्या किनाऱ्यांवर चक्क फ्लेमिंगो सारखे पक्षी निवास करताना दिसून येत आहेत. काही समुद्रांच्या किनाऱ्यावर डॉलफिन्स पोहताना दिसून येत आहेत. कित्येक ठिकाणी सप्तरंगी मोराचे दर्शन घडून येत आहे. सर्व वन्यपशू आज मोकळा श्वास घेत आहेत. शुद्ध व निर्मळ हवेमुळे अनेक लोक आजारमुक्त झाले आहेत व आजारांचे प्रमाण हळूहळू कमी होत आहे.

वातावरणातील हा बदल खरोखरच विस्मयकारक आहे. आजतागायत मानव हा वन्यजीवांवर व निसर्गावर नेहमीच अत्याचार लादत होता. परंतु तोच निसर्ग आज आपल्याला जीवनदान देत आहे. पक्ष्यांचा किलबिलाट, निरभ्र व शुभ्र आकाश, त्या आकाशात भ्रमण करणारे पक्षी, वन्यजीवांचा संचार, स्वच्छ नद्या, समुद्र पाहून आज मानव देखील धन्य झाला आहे. आजपर्यंत निसर्गच आपल्याला सर्व काही देत आला होता.

- चैताली राजेंद्र पाटील  
SYJC

## आजच्या काळात संगणकीय साक्षरतेची गरज

आजच्या २१ व्या शतकातील मानवाच्या जीवनाचा अविभाज्य घटक म्हणजे संगणक. आधुनिक काळातील विज्ञानाने दिलेली ही अमूल्य देणगी आहे. आज संगणकाविना कुणाचेही पान हलत नाही. संगणक हा तंत्रज्ञानाचा अविष्कार आहे. सध्याच्या विज्ञान आणि तंत्रज्ञानाच्या काळात सर्वच क्षेत्रात संगणकाचा वापर सुरु झाला आहे. एकविसावे शतक हे ज्ञानयुग आहे आणि ज्ञानयुगाचा कळस म्हणजे संगणक या संगणकामुळेच ज्ञानयुगाची सुवर्ण दालने खुली झाली आहेत.

भारत स्वतंत्र झाल्यानंतर देशाचा सर्वांगीण विकास व्हावा म्हणून प्रयत्न केले जाऊ लागले. आपल्या भारत देशाने आर्थिक व बौद्धिकदृष्ट्या प्रगत होण्यासाठी अनेक आधुनिक तंत्रज्ञानाचा स्वीकार केला. अशातच अमेरिकेसारख्या प्रगत व विकसित राष्ट्राने जेव्हा भारताला सुपर कॉम्प्युटर तंत्रज्ञान देण्यास नाकारले तेव्हा राजीव गांधी यांच्या सहाय्याने पहिला सुपर कॉम्प्युटर बनवणारी संस्था म्हणजेच 'सी-डॅक' भारतीय संगणक तंत्राच्या सहाय्याने पहिला सुपर कॉम्प्युटर 'परम-८०००'ची निर्मिती १९८० च्या सुमारास करण्यात आली. इतकेच नव्हे तर इंग्रजी भाषाव्यतिरिक्त अन्य भारतीय भाषा संगणकावर लिहिण्यासाठी इनस्क्रिप्ट की-बोर्डची निर्मिती करून भारतीय भाषेत संगणक उपलब्ध करून दिला. संगणकाच्या क्रांतीनंतरच मानवी जीवनात खऱ्या अर्थाने क्रांती घडून आली.

संगणकाचा जन्म कित्येक वर्षांपूर्वीच झाला. पण त्याकाळी हा संगणक आकाराने मोठा आणि वयाने व अनुभवाने लहान होता पण आता मात्र जसा जसा तो वयाने मोठा होऊ लागला आहे, तसा त्याचा आकार लहान होत आहे. पण महत्त्वाची बाब म्हणजे संगणकाच्या कार्यक्षेत्राने आणि महत्त्वाने मात्र क्षितिज गाठले आहे. अनेक शास्त्रज्ञांनी संगणकावर प्रयोग केले आणि त्यांच्या यशस्वी प्रयत्नांमुळेच आज आपले जीवन टेक्नोसॅवी आणि सुलभ झाले आहे. आज संगणक प्रत्येक घराघरात पोहोचला आहे आणि संगणकाचे अनन्यसाधारण महत्त्व जाणूनच संगणक हा विषय शालेय विद्यार्थ्यांना देखील शिकवला जात आहे. आज प्रत्येक क्षेत्रात संगणक आपल्या मदतीस हजर असतो. आबालवृद्धांपर्यंत सर्वांच्याच उपयोगी संगणक असल्याने संगणक साक्षरतेचे महत्त्व दिवसेंदिवस वाढतच आहे. संगणकाने सर्व क्षेत्रे पादाक्रांत केलेली आहेत. आज आपण संगणक साक्षरतेमुळेच घरबसल्या रेल्वे, विमान यांच्या टिकिटांचे आगाऊ आरक्षण करू शकतो. विजेचे बील, विम्याचे हफ्ते, बँकेचे व्यवहार, वस्तूंची खरेदी-विक्री आपण आज घरबसल्या संगणकावर करू शकतो. या युगातील अंतराळ विज्ञानाला देखील संगणकाचा आधार लाभला आहे. संगणकाने सर्व कामे सोपी व सुलभ केली आहेत. शालांत परीक्षा आणि इतर निकाल आपण संगणकावर बघू शकतो. मोठमोठी पुस्तके, कादंबऱ्या, ग्रंथ, वर्तमानप आपण संगणकावर वाचू शकतो. खरोखरच संगणक हे बहुउपयोगी यंत्र आहे.

आज कोणतेही क्षेत्र संगणकाच्या स्पर्शापासून दूर राहू शकत नाही. इतके संगणकाचे महात्म्य वाढलेले आहे आणि हे महत्त्व वाढले आहे ते त्याच्या फायद्यांमुळे आणि वैशिष्ट्यांमुळे. गती हे संगणकाचे मुख्य वैशिष्ट्य आहे. खऱ्या अर्थाने गतीमुळेच संगणकाचा आधुनिक काळात विकास झाला आहे. मानवाच्या काम करण्याच्या वेगापेक्षा संगणकाचा काम करण्याचा वेग कितीतरी पटीने जास्त आहे. स्मृती हे संगणकाचे दुसरे अतिमहत्त्वपूर्ण वैशिष्ट्य आहे. संगणक आपल्या स्मरणात दीर्घकाळापर्यंत माहिती साठवून ठेवू शकतो आणि उपयोगी कर्त्याला पाहिजे तेव्हा उपलब्ध करून

देऊ शकतो संगणकाचा गुणधर्म म्हणजे संगणकास परत परत तेच काम करायला सांगितले तरीही संगणक ते काम त्याच वेगाने व कार्यक्षमतेने करीत असतो. तसेच अचूकता पण तीच असते. संगणक हे अष्टपैलू यंत्र आहे. बँक व्यवहार, चित्र काढणे-रंगवणे, नकाशे तयार करणे, आलेख तयार करणे, हिशेब ठेवणे, संदेशवहन करणे, पत्र लेखन, गप्पागोष्टी करणे, मनोरंजन, गणना करणे, वेबसाईट बनवणे यांसारखे विविध कामे संगणक चुटकीसरशी करतो आणि त्याच्या कामातील अचुकतेमुळे आणि एकनिष्ठतेमुळे त्याने मानवाचे जीवन सुखमय व समृद्ध केले आहे. ऐवढे सर्व संगणकाचे फायदे व वैशिष्ट्ये जाणून घेतल्यावर आपोआपच आपल्या मनात संगणक साक्षर बनण्याची इच्छा उत्पन्न होते.

मानवाच्या उत्क्रांतीचे टप्पे त्याच्या एकूणच विकासात भर टाकणारे असताना अशातच संगणक क्रांती म्हणजेच मानवाच्या प्रगतीच्या मार्गाला मिळालेला एक सुवर्णमार्ग आहे. संगणक ही एक क्रांती आहे व इंटरनेटसारखा चमत्कार हे संगणकाने टाकलेले पुढचे पाऊल आहे. इंटरनेट शिवाय संगणक म्हणजे मीठाशिवाय जेवण. इंटरनेटच्या माध्यमातून माणसांना ज्ञानाचा खजिना उघडा झाला आहे. संगणक आणि त्यातील इंटरनेटमुळे आज सारे जग जवळ आले आहे. लाखो व्यक्ती परस्मरांशी संपर्क साधून निरनिराळ्या विषयांवरच्या मतांची देवघेव करू शकतात. जी काळाची गरज आहे. जगातील एकही असा विषय नाही ज्याची माहिती इंटरनेटवर नाही. म्हणूनच इंटरनेटला कल्पवृक्ष म्हटले जाते. आज संगणक आणि इंटरनेट यांनी आपल्या आयुष्यात लक्षणीय बदल घडवून आणला आहे. विविध विषयांच्या संबंधित संकेतस्थळे संगणकावर उपलब्ध झाल्याने विविध विषयांच्या अद्ययावत महित्या मिळवणे शक्य झाले आहे. इंटरनेट म्हणजेच माहितीचे महाजाल जेव्हा खुले झाले तेव्हा संगणक क्रांतीला परिसरस्पर्श मिळाला. फेसबुक, व्हाट्सअप यांसारख्या सोशल मिडियाच्या शोधानंतर माहितीचे आदान-प्रदान करणे, संदेशाची देवाण-घेवाण करणे या गोष्टी सहज होऊ लागल्या. आजच्या घडीला इंटरनेट आणि संगणक साक्षर असणे ही काळी गरज बनत चालली आहे. अशा या माहितीच्या खजिन्यापर्यंत पोहोचायचे असेल तर संगणक साक्षरता आवश्यकच नाही तर अत्यावश्यक आहे.

आज संगणकाला अशक्य असा शब्द माहितीच नाही आणि हे शक्य आहे ते एका अर्थाने मानवामुळेच कारण मानवानेच त्याची निर्मिती केली आहे. एकेकाळी संगणक ही फक्त शास्त्रज्ञांची मक्तेदारी होती. पण आज तो जनसामान्यांचा सेवेकरी झाला आहे. संगणक साक्षर बनताना त्याच्या तोट्यांचा सुद्धा काही प्रमाणात आपण विचार केला पाहिजे. शालेय मुलांना सुद्धा संगणकाचे फायदे व तोटे समजावून त्यांच्या बौद्धिक क्षमता वाढवण्यासाठी संगणक हाताळायला द्यायला हवा. संगणक वापराने लोक विचार करण्याच्या प्रक्रियेपासून दुरावले गेले. गणिती क्रिया ऑनलाईन पटकन होऊ लागल्या त्यामुळे पाढे पाठांतर हा प्रकारच नष्ट झाला. तांत्रिक ज्ञानात लोक गुरफटले आहेत. पोपटपंची पिढी निर्माण होते की काय असा धोका निर्माण झाला. तरी लोकांनी संगणक ज्ञान स्वीकारले. तशी त्यांची मानसिकता झाली. दैनंदिन जीवनात संगणक वापर वाढला. घराघरात संगणकासमोरची बैठक वाढली. डिजीटलायझनेचे युगच जणू काही अवतरले. सर्व आर्थिक व्यवहार ऑनलाईन होऊ लागले. खिशात पैसे खुळखुळण्या ऐवजी एटीएम कार्डच संगणकाच्या लहान प्रतिकृतीत म्हणजेच मोबाईलवर दिसू लागले आहे. अगदी शेतकरी म्हणजेच मोबाईलवर सर्व प्रक्रिया करू लागले आहेत. ते सुद्धा या प्रक्रियेपासून अलिप्त राहिलेले नाहीत. पण संगणकाच्या

तोट्यांपेक्षा त्याचे महत्त्व आणि उपयोग अनन्यसाधारण आहे. म्हणूनच संगणक साक्षरता हवीच.

आज सर्वच क्षेत्रांमध्ये आपले हक्काचे स्थान बजाविणाऱ्या संगणक आणि इंटरनेट यांच्या शोधामुळे मानवी जीवनात घडून आलेल्या या डिजिटल क्रांतीचा आढावा घेण्यासाठी २ डिसेंबर हा दिवस संगणक साक्षर दिन म्हणून ओळखला जाऊ लागला. संगणक साक्षरतेविषयी जनजागृती करण्यासाठी २ डिसेंबर हा दिवस संगणक साक्षर दिन म्हणून साजरा केला जातो. प्रत्येक क्षेत्र तंत्रज्ञानावर अवलंबून आहे. जे लोकांना त्यांचे काम पूर्ण करण्यास मदत करते. जागतिक संगणक साक्षरता दिवस 'डिजिटल' जागरूकतेला प्रोत्साहन देतो. हा दिवस साजरा करण्याचा मुख्य उद्देश म्हणजे संगणक शिक्षणाचा प्रसार करून संगणकाचा वापर अधिकाधिक लोकांना सक्षम बनविणे हे आहे. संगणक साक्षरता प्रत्येक विद्यार्थी, महिला यांच्यापर्यंत पोहोचावी याकरिता सरकार नेहमीच प्रयत्नशील आहे. आज प्राथमिक वर्गापासून मिळणारे संगणकाचे प्रशिक्षण विद्यार्थ्यांना उद्याच्या उज्ज्वल भारत घडवण्यास नक्कीच मदत करणारे आहे.

वर्ड, एक्सेल, पॉवर पॉईंट यांसारख्या सर्वसाधारण सॉफ्टवेअरची ओळख असल्याने शैक्षणिक क्षेत्रात सहजरीतीने तंत्रज्ञानाचा उपयोग घेता येत आहे. आताचे जग टेक्नोसॅवी असल्याने आताच्या पिढीला संगणकाचे ज्ञान असणे गरजेचे आहे आणि आताची नवी पिढी दिवसेंदिवस तंत्रस्नेही बनत आहे.

संगणकाचे शिक्षण घेऊन त्याचा व्यवसाय वा नोकरी म्हणून निवड केलेले कित्येक लोक कमालीचे यशस्वी झालेले आढळतात. अनेक 'तगड्या' पगाराच्या नोकऱ्या देखील देश-विदेशात जाऊन करत आहेत. दरवर्षी जगभरात तब्बल दोन अब्जपेक्षा जास्त संगणक विकले जातात. सर्वच क्षेत्रात आज संगणकाचा वापर क्रमप्राप्त ठरत आहे. म्हणूनच विद्यार्थ्यांना नव-नवीन तंत्रज्ञानाविषयी शिकवणे फार गरजेचे आहे. जर आज विद्यार्थी काळाबरोबर चालायला शिकेल तरच उद्या तो काळाच्या पुढे जाईन, भविष्यात प्रगती करेल. संगणकीय जागरूकता वाढविणे आणि वंचित समुहांच्या माहिती तंत्रज्ञानाच्या ज्ञानात वाढ करणे हे ध्येय डोळ्यासमोर ठेऊन आपण वाटचाल केली पाहिजे.

कोरोना लॉकडाऊनच्या काळात संगणकाच्या कार्यामुळे संगणकाची चलतीच झाली. जे लोक संगणक मोबाईल वापरस विरोध करत होते त्यांनीच संगणकाचा पुरस्कार करावयास सुरुवात केली. शाळा, महाविद्यालयात शुकशुकाट असताना संगणकच आपल्या मदतीला धावून आला आणि संगणक साक्षरतेची गरज भासू लागली व संगणक साक्षरताच आपल्या कामी आली. त्यामुळेच आपण घरातूनच संगणकावर अध्ययन अध्यापन सुरु झाले. अगदी लहान वयातील मुले देखील संगणक सफाईदारपणे हाताळताना दिसू लागली. समाजात एकप्रकारे बदलाचे वारे वाहू लागले. घरातूनच 'वर्क फ्रॉम होम'च्या गोंडस नावाखाली लोक काम करू लागले.

एक काळ असा होता की लिहता-वाचता आले की तो माणूस साक्षर अशी साधी सोपी साक्षरतेची व्याख्या केली जात असे. काळ बदलत गेला तशी साक्षरतेच्या व्याख्येची व्याप्ती देखील बदलली संगणकाचे ज्ञान तो खरा साक्षर असे नवे समीकरण रुढ झाले. परंतु यासाठी इंग्रजी येणं गरजेचे आहे असे आपण ऐकले असेलच. रशिया, जर्मन



देशांमध्ये संगणकाचे ज्ञान त्यांच्या मातृभाषेत दिले जाते. त्यामुळे संगणक शिक्षणाच्या आड भाषा येत नाही. आज आपल्याकडे सुद्धा मराठीमध्ये संगणकीय ज्ञान आपल्या मातृभाषेत दिले जाते. त्यामुळे इंग्रजी येते किंवा नाही हे न पाहता संगणकामधील काय काय येते हे जास्त महत्त्वाचे धरले जाते. तेव्हा ज्ञानाचा अतिद्रुत गतिमार्ग शोधून त्यावर धावण्यासाठी हवी संगणक साक्षरता. संगणक साक्षरतेला कुठलेही वयाचे बंधन नाही. पण एक अट मात्र आहे; ती म्हणजे तुमची संगणक साक्षर बनण्याची तीव्र इच्छा. कारण इच्छा तेथे मार्ग हा असतोच!

– चैताली राजेंद्र पाटील  
FYBSc., Human Science

## मनाचे पुस्तक

काही गोष्टी किंवा शब्द बोलायला अगदी सोपे असतात. मात्र त्यांचा अर्थ हा खूप काही सांगून जातो. तसच काहीसं मन – हे 'मन' कुठे असत हे माहित नाही पण असतं एवढं माहित आहे. माणूस आपल्या आयुष्यात सुखांचा व दुःखांचा आस्वाद घेतो आणि हे क्षण, आठवणी तो जपून ठेवतो. हे सर्व काही तो जिथे कैद करून ठेवतो ते ठिकाण म्हणजे – 'मन'. माणूस विचार करतो ते मनात, आठवणी जपून ठेवतो ते मनात आणि एवढं सगळं करून हे 'मन' थकत नसेल का ?

माणूस मरेपर्यंत त्याची सावली आणि त्याचे मन त्याला सोडत नाही. न्यूटनने गुरुत्वाकर्षणाचा शोध लावताना डोक्याने विचार केला का मनाने माहित नाही. पण डोक्याने विचार करण्यासाठी मनानेच प्रतिसाद दिला असेल ना ? मन हे अगदी चंचल असतं पण विसावतं ते म्हणजे 'आईच्या कुशीत!!' 'प्रेम' हे देखील ह्या मनातच दडलेले असत, कारण ते दाखवता येत नाही जाणवता येतं... ह्या मनातील सुंदर प्रेम असतं ते म्हणजे – 'माय-लेकराचं'...

माणसाच्या आयुष्यात असे खूप काही शब्द आहेत, ते त्याला रडवतात देखील आणि हसवतात देखील. उदाहरणार्थ – 'सॉरी! प्रत्यक्षात हा शब्द दोन नाही पुन्हा जुळवण्यासाठी मदत करतो परंतु हाच शब्द जेव्हा डॉक्टरांच्या तोंडातून ऐकला जातो ना तेव्हा ते माणसाच्या मनाला दुःख देत माणसाला 'मन' तर नक्कीच आहे. पण त्यात माणुसकी आहे ? काय अजब गोष्ट आहे ना. माणूस येताना रडत येतो पण जाताना रडवून जातो. "एकावे जनाचे करावे मनाचे" हे ध्यानीमनी ठेवून माणसाने चांगले कर्म केले पाहिजे, कारण ह्या जगात आपण काय आहोत हे आपण जगाला दाखवतो. मात्र आपण काय नाही हे जग आपल्याला दाखवते... बरोबर ना ?

– दिक्षा ललुकांत गवस  
११वी/अ

## एका थकलेल्या बापाचं मन

सध्या, मला आयुष्य जगण नकोसं झालंय. जीवन जगतोय पण फक्त शरीराने, मनाने नाही. आयुष्यातील पहिली १० वर्ष बालपणात गेली. नंतर थोड्या वेळाने तरुणवयात लग्न झालं. स्वतःवरची जबाबदारी वाढली. काही वर्षांनी एक मुलगा देखील झाला. हळूहळू परिस्थिती बदलली. तसेच जबाबदारी वाढली. माझा एकुलता एक मुलगा - त्याला भरपूर शिकवायचं असे माझं आणि माझ्या बायकोचं स्वप्न होत. १२-१२ तास काम करून त्याचं इंजिनिअरिंगचं शिक्षण पूर्ण केलं. त्याच्या शिक्षणासाठी पैसे अपुरे पडत होते, म्हणून गावी जमिनसुद्धा विकली. मुलगा आता ऑस्ट्रेलियामध्ये इंजिनिअरिंगच्या मोठ्या पदवीला आहे. त्याने त्याचे कुटुंब तेथेच वसवले. आपला मुलगा आता कायमचा सातासमुद्रा पार राहणार या गोष्टीने मी आणि माझी बायको थक्कच झालो. याच झटक्याने माझ्या बायकोने माझी साथ सोडली. तिला ही गोष्ट पचवता आली नाही व हृदय विकाराच्या झटक्याने तिचा मृत्यू झाला. ही गोष्ट जेव्हा मुलाला फोन करून सांगितली तेव्हा त्याने प्रतिउत्तर की, "मला तिथे येता येणार नाही तुम्ही अंत्यविधी करून घ्या!" हे ऐकताच मला कळाले की या जगात कोणीही कोणाच नसतं. ज्या मायने आपला चेहरा न बघूनसुद्धा ९ महिने पोटात वाढवलं, तिच्यासाठी देखील आपल्याकडे वेळ नाही. तिला आपण निरोपसुद्धा देऊ शकलो नाही... किती निर्दयी गोष्ट आहे. आता मला माझ्या मुलाने भारतात एक मोठे घर घेऊन दिले. मात्र या घरातील माणसांची नाती तो नाही देऊ शकला! आता मी जगू कोणासाठी आणि करू कोणासाठी? आयुष्यात फक्त पैसाच महत्त्वाचा असतो का? मुळात चुकी ही पालकांचीच असते. आपण त्यांना त्यांच्या बालपणी सांगतो की, "लेकरा, खूप मोठा हो आणि उंच भरारी घे पण हे सांगायच विसरून जातो, घरट्यात विसावा घ्यायला ये." आता चष्मा घातला काय आणि नाही घातला काय... आयुष्यात तर अंधारच आहे...

- दिक्षा ललुकांत गवस  
११वी/अ

## काटा

वाटेत चालताना,  
पायात रुतला काटा ।  
मी सहज वळून पहिले तर,  
काटा ओळखिचा होता ।

संघर्ष केला मी फार,  
विसरून सारी कळ ।  
संघर्षाच्या वाटेवर,  
मिळाले मला ते फळ ।

पायात रुतला काटा,  
जखमा काळजात होत्या ।  
वेदना होत्या त्या फार,  
पण मी न मानली हार ।

फळाची त्या प्रचीती,  
मला जगभर मिळाली कीर्ती ।  
घरात पेटली चूल,  
काट्याचे झाले त्या फूल ।

- संकेत देसाई, SYJC

## शुर पराक्रमी ही जात

शुर पराक्रमी ही जात  
जाणुनी घ्यावे रे इतिहास  
शुर पराक्रमी ही जात  
जाणुनी घ्यावे रे इतिहास

गद्वारांना वाटते आता लाज  
शिवाजी राजाचा होता तो राज  
गाजतो गाणी लावुनी नाचं

गर्व मला त्या राजाचा घेता मी त्याचा ध्यास  
रगत फोडुनी यवनांनी राजाचा घेताला घासं  
रयतेचे हे हाल चालले कसा घ्यायचा श्र्वास.....

ती होती एक चालं  
गणिमी काण्याचा तो कालं.....

शिवाजी राजाने मांडला तो छानं.....  
कसा फाडला होता तो खानं.....

बुद्धीची ही खान नव्याने जान मानीतो आता.....  
नेहमी राहीन शिवरायांच्या चरणी हाच माझा  
माथा.....

- अनुज सरदार  
SYJC



## इक्कीसवीं शताब्दी का भारत

वर्तमान समय में हम जी रहे हैं उसे ही इक्कीसवीं शताब्दी कहते हैं। इक्कीसवीं अर्थात् वर्तमान। वैसे तो इक्कीसवीं शताब्दी का प्रारंभ हुए तो कई वर्ष हो गए। वर्तमान समय में हमारे प्रधान मंत्री श्री. नरेंद्र दामोदारदास मोदी हैं। इनके आने से कई बदलाव भी हुए। इक्कीसवीं शताब्दी का भारत बहुत शक्तिशाली है। स्वतंत्रता के पश्चात हमारे देश विभिन्न क्षेत्रों में उन्नति की है। जैसे सामाजिक अर्थव्यवस्था में प्रगति, वैज्ञानिक अविष्कार सांस्कृतिक रूप में समृद्धि, शिक्षा के क्षेत्र में विकास, खेती के उन्नत तरीके तकनीकही और विज्ञान का समुचित विकास, चिकित्सा के क्षेत्र में अनुसंधान आदि कई क्षेत्र हैं। जिनमें अब हम आगे बढ़ चुके हैं।

आज के भारत को इक्कीसवीं शताब्दी का भारत कहा गया है। मोदी सरकार के आने के बाद भारत में डिजिटल क्रांति का भी संचार बहुत ज्यादा हुआ है। जब से भारत में ए-कॉमर्स अपनी जगह बनाई है तब से भारत में अनेक सुविधाएं ऑनलाइन हो गई हैं। जैसे बैंक, शॉपिंग, बिल भुगतान इत्यादि।

भारत के इक्कीसवीं शताब्दी में कई क्षेत्रों में हुई प्रगति / बदलाव।

आर्थिक क्षेत्र में – आज हमारे देश में आर्थिक रूप से पहले की अपेक्षा कहीं अधिक सक्षम है। हावर्ड युनिवर्सिटी के अर्थशास्त्रियों के अनुसार भारत की विकास दर लगभग ७% है, जो इसे सबसे तेज करती हुई देश बनाता है। इसी वजह से विकास वर्ष २०२४ में इसे चायना से भी आगे ले जाएगी। अर्थात् देखा जाए तो विश्व की सबसे विकास करने वाली



अर्थव्यवस्थाओं में से एक है भारत। हमारे देश के प्रधान मंत्री तथा वित्तीय मंत्री मंडल ने हाल ही में विदेशी प्रत्यक्ष निवेश (ऋतुख) को पूर्ण रूप से अपनी मंजूरी प्रदान की है। जिससे अब कई बाहरी कम्पनियाँ भारत में बड़े पैमाने पर निवेश करेंगी। जिसका लाभ भारत के अर्थव्यवस्था को मिलेगा।

**गरीबी :** हमारे देश में दुर्भाग्य की बात यह है कि अमीर और अमीर, गरीब और गरीब होता जा रहा है। इस कारण देश पूर्ण रूप से विकसित नहीं हो पा रहा है। अभी तक विकासशील देशों में गिना जा रहा है। हमारे देश के कई लोगों ने अपना पैसा स्विट्स बैंक में रखा है। वह काला धन के स्वरूप है। देखा जाए तो अगर वह धन वहाँ से भारत आने में सफल हो जाए तो देश की गरीबी काफी हद तक सुधर जाएगी।

**शिक्षा के क्षेत्र में :** हमारे देश में शिक्षा का स्तर भी सुधरा है परंतु अभी तक हम केवल प्राथमिक शिक्षा को ही मुफ्त उपलब्ध करा पाए हैं जो काफी नहीं हैं। और कई अच्छे क्षेत्रों में तो विद्यार्थी सभी प्रकार के क्षेत्रों में उच्च शिक्षा प्राप्त कर सकते हैं। यहाँ पर्याप्त शाला, महाविद्यालय आदि खोले गए हैं।



साथ ही हमारे यहाँ बाहर के विद्यार्थी भी शिक्षा ग्रहण करने आते हैं। हमारे देश में प्रौढ शिक्षा अभियान, सर्व शिक्षा अभियान तथा 'सब पढ़े सब बढ़े' जैसे कार्यक्रम द्वारा देश के स्तरीय शिक्षा को सुधारने के लिए सराहनीय कदम उठाए गए हैं। देश के सम्पूर्ण विकास के लिए लड़कों के साथ साथ लड़कियों की शिक्षा के लिए भी समुचित प्रयास जारी हैं।

चिकित्सा विज्ञान के क्षेत्र : प्राचीन काल से ही हम चिकित्सा क्षेत्र में अग्रगण्य रहे हैं, परंतु उपकरणों के अभाव में हम पिछड़ गए थे परंतु आज स्थिति कुछ अलग है। हमारे देश में सभी बीमारियों का इलाज उपलब्ध है। साथ ही उनकी जाँच के लिए भी सभी मशीनों की व्यवस्था देश में उपलब्ध कराई गयी है।

स्वतंत्रताके बाद प्रारंभ की गयी प्रथम पंचवर्षीय योजना की तुलना में आज हमारे चिकित्सकों और अस्पतालों में पलंगों की संख्या पहले की तुलना में क्रमशः लगभग २ गुनी से ५ गुनी हो चुकी है।

मलेरिया, टी.बी., हैजा जैसी बीमारियों से लोग पहलेकी अपेक्षा कम पीड़ित होते हैं। वहीं जानलेवा बीमारियों जैसे प्लेग, छोटी माता आदि से होनेवाली मृत्यु दर में भी कमी आई है। देश में पर्याप्त पोलियो जैसी बीमारी को लगभग हम पूर्णतः खत्म कर चुके हैं। देश में औसत आयु बढ़ी है और बिमारियों से होने वाली मृत्यु दर में भी कमी आई है।

**श्रेया नाडकर्णी**  
SYBsc,MS



## 2020 A Nightmare

*Happy new year was actually sad,  
 Every thing was destroyed...it was bad.  
 Pandemic made the people heartless,  
 Air too, was still breathless.  
 Festivals were forgotten,  
 Everyone's luck was rotten.  
 It was the time to rise against it,  
 Still.... no one was able to meet.  
 Doctors and Police were investigating,  
 Even in this situation...INDIAN ARMY was protecting.  
 We are still afraid to welcome 2021 completely,  
 Cause 2020 destroyed everyone indefinitely.  
 Come....let's rise again....be like a knight,  
 With a masked armor weared tight.  
 Let's make the future brightened,  
 Corona we are not frightened...*

**Ganesh Dandekar**  
SYJC/D



## Apocalypse

*Humanity is always been in danger...since years.  
 But this filthy pandemic brought tears.  
 But this time the enemy is stronger..  
 Trying to last longer..and spread faster.  
 Now it's our duty to completely vanish this virus  
 Which for humanity is a MUST*

**Ganesh Dandekar**  
SYJC/D

## WHY

*Smiling more often as a child,  
 Time takes over and we question why.  
 Who always cried over a reason mild,  
 Now a little bit scared to feel and cry.  
 Possibilities and dreams knew no limit,  
 Now as they come upon you ask how.  
 Often scared to try and timid,  
 Did things like there is just now.  
 Happy heart ,considerate and kind,  
 Forgets to notice as happiness passes by.  
 Still learning this little mind,  
 Slowly gets piled with reasons why.*

**Anushka Ahire**



### *India's Gate*

*With great history,  
With amazing mystery,  
The gate shines with nature's beauty,  
With delicate sculpture, with beautiful carving,  
Amazes every eye who pass by,  
Standing with proud , the culture it shouts,  
Being a star with thousands clicks its charm,  
With huge legs stood for years,  
Reflecting all reasons why to praise,  
The gate of giants, the gate for giants,  
Showing its powers , gives a wide smile ...*

**Singh Simran Adarsh**  
SYJC

### *Life in problem*

*Not of bricks,  
Made of tricks,  
Found me in a room.  
  
Life in one hand,  
Unable to stand,  
Wants to run,  
But I can cry!  
Out in dark  
Life ..now like danger  
  
Life ..is like wind  
Sometimes make storm,  
Sometimes feel like home  
Life in problem or problem in life  
No chase of me in tears and cry,  
Oh! I grateful to almighty  
It was a nightmare.*

**Simran Singh**  
SYJC

### *Miss The Destination*

*I miss the destination  
Where I started my college days  
  
I miss those amazing teacher  
And those new but loving friends  
  
Now, the place where bright future made is closed,  
Our source of happiness is paused  
  
I wish to open that place and enjoy those days again,  
I co-operating to who are working. Hard to fight with Co-vid  
  
My wisdom is not silenced, just the mode of learning is changed  
But that happiness In reality is loss.....*

**Rohit Ambadas Pandhare**  
SYJC

## *Immune System*

*Network of biological processes,  
That protects an organisms from diseases.  
It scans, detects, traps and responds,  
To viruses, pathogens or parasitic worms.*

*Several barriers which look so thin,  
Includes exoskeleton, shell, cuticle and skin.  
Skin acting as first barrier,  
Doesn't allow any pathogen carrier.*

*Second barrier is the mucus trap,  
Secreted by respiratory and GI tract.  
Wraps the pathogen and gives a slap,  
Ensures each cell is completely cracked.*



*The pathogens do not find their peer,  
Even in Saliva, Urine or Tear.  
PAMP's and DAMP's are the two molecular patterned groups,  
Identified by Macrophages, RBCs, Epithelial and Dendritic troops.*

*Leukocytes in the innate immune system is the second arm,  
Which also includes NK cells, eosinophils and basophils in the farm.  
Engulfing the pathogen particles is the role of Phagocytes,  
And the one responsible for inflammatory response is Granulocytes.  
Associated with allergy and anaphylaxis in connective tissue are mast cells,  
Detect the site of injury or infection and release histamine as spells.  
Inflammation is the first response to the infection,  
With symptoms redness, heat, pain and swelling of that section.*

*Multiprotein complexes inflammasomes in line,  
Helps to generate active forms of inflammatory cytokines.  
Adaptive immune system requires non self antigen recognition by antigen presentation,  
And stores immune response and immunological memory for several generation.*

*Two major types of lymphocytes known as B cell and T cell,  
Are the special type of leukocytes derived from bone marrow and thymus as well.*



*Immune system is involved in many aspects of physiological regulation,  
And also plays a crucial role in embryogenesis, tissue repair and regeneration.*

*Failures of host defence termed as disorders of human immunity,  
Categorised as Immunodeficiency, Hypersensitivity and Autoimmunity.  
The study of immune system, it's cell and tissues is called immunology,  
That measures the physiological functioning of immune system and is a part of biology.*

**Zubiya Khan**  
SYJC



### ***The midnight scars***

*My scars, my battles as I speak  
With a broken shield in my chest  
The cracks might widen  
Making a day look a little harder  
But it won't make me swallow  
I might not be that wild again  
With that brave face unguided  
As twigs, stones cluttered me  
Remind me the pain and oath  
Death of unrequited love  
Loss of the sufferings unknown  
Life is full of misfortune they say  
But the shattered heart stays  
I still think, I still blink  
When your name flashes in crowd  
Like a colourless ocean I dive  
You remind me of the tinted glass  
The lost bottle at shore  
Mirage at the desert island  
Tinned red roses at door  
Tell me, tell yourself  
Who deserved more?  
If my past moves this time*

*If my scars make you judge me  
Just let me tell  
They won't affect me now  
They won't hurt me now  
They won't make me cry  
You take the might  
Of the starless sky  
Dungeons of the demons  
But you cannot hurt me  
Won't move my heart  
Stone cold rain bolt  
Reminding my scars darling  
Won't hurt me now.  
Because they were my past  
And my absence  
Is your present.  
Charms vices and lies  
The scary me as died  
my scars, my battles as I speak  
have made me stronger than weak.*

**Shatakshi Jadhav**  
FYJC/D

*Life an uncertain Journey*

*Not all dreams are fulfilled,  
Not all desires are met,  
Everything may seem normal,  
But there's still something lacking yet,  
Always smiling people are amongst the lonely one,  
Do remember that there's a dark spot even in the shining sun,  
Certain desires, certain wishes are sometimes left behind forever,  
No matter how hard one tries they can be complete never,  
Even the bolder, the stronger has a weak spot,  
In this paced life unshared gone are feelings a lot.  
Life is all about going with the time,  
Sharing weakness in this materialistic world is a crime.  
No matter what the situation is never back down,  
Coz, here even the sliding snail is destined to reach the crown.  
It's better to break,  
Its better to mend,  
Remember life goes on,  
You have a life to spend.*

**Vicky Patil**  
Asst. Professor,  
Dept. of Environmental Science

आव्हान

‘तू’ अचानक आलास  
आम्ही बाबरलो  
आम्ही घाबरलो...

टाळ्या वाजवल्या

थाळ्या वाजवल्या

पण,

तू नाही गेलास

उलट

तू मात्र पसरलास

पसरत राहिलास

मग,

आम्ही बदललो

झाकलं तोंड

धुतले हात

माणसां-माणसात राखलं अंतर

तू हसलास...

तू पसरलास...

पण आम्ही हरता हरता जिंकलो

आमच्या लढाईत,

कुणी दुरावलं,

कुणी कायमचं हरवलं

‘प्राक्तन’ समजून घेतलं

आता,

तुला आम्ही घाबरत नाही...

तुझ्यामुळे खूप शिकलो,

‘लस’ नावाची ढाल आमच्या हाती आहे

कोरोना विश्वातून तू जा

नाहीतर,

गाठ आमच्याशी आहे.

समिक्षा बामणे

११वी

## जीवनाचे सार

जन्माला आला आहेस  
थोडं जगून बघ  
जीवनात दुःख स्वरूप आहे  
थोडं सोसून बघ  
चिमूटभर दुःखाने कोसळू नकोस  
दुःखाचे पहाड चढून बघ  
यशाची चव चाखून बघ  
अपयश येत निरखून बघ  
डाव मांडण सोपं असतं  
थोडं खेळून बघ  
घरटं बांधण सोपं असतं  
थोडी मेहनत करून बघ  
जगणं कठीण मरणं सोपं असतं  
दोन्हीतल्या वेदना झेलून बघ  
जीणं मरणं एक कोडं असतं  
जाता-जाता एवढं सोडवून बघ

- आवटे मृणाल दत्तात्रेय  
११ वी/ड





## सावलीत जीव माझा

लहानपापासून सावलीत मी, आईच्या तर कधी बाबांच्या मी राही,  
कधी त्या तीव्र उन्हाची झळ मला लागलीच नाही...

शिक्षकांनी कष्ट घेतले माझ्यावर,  
पण मी कधी कधी लक्षच दिले नाही माझ्या शिक्षणाच्या बोट्यावर...

ते तीव्र पण ते तेजस्वी उन्ह न मी सोसले,  
या काल्पनिक सावलीत मन माझे असोसले...

हा मंद वा कठोर समाज अडवतो वाट जाण्याची,  
मला कोणी दाखवलीच नाही वाट सावलीतून उन्हाकडे येण्याची...

या आभासी सावलीत, काही पिवळे ही कधी सुवर्ण वाटले,  
पण माझ्यातले स्वरे सोने मीच नाही पाखले...

कष्टविना बुद्धी झालिये जणू बंद,  
या आखूड विचारांनी जीवन केलेय मंद...

या comfort zone च्या सावलीतून आता बाहेर जायचे आहे,  
स्वर्च मला आता स्वऱ्या उन्हात तापायचे आहे...

जळलो, भाजलो, कळपटलो तरी चालेल या उष्णतेने,  
कारण जगाला दाखवायचे आहे माझ्यातले बावन्न-कशी सोने...

आता मला समजला आहे, कष्टाशिवाय यश नाही,  
आरामाची सावली हे माझे जग नाही...

रोहित अंबादास पांढरे

SYJC Div B

## कोरोनाशी लढा

चीन मधून आली ही कोरोना नावाची महामारी  
लढा देत या विषाणूला घायाळ झाली दुनिया सारी ॥

आळा घालायला कोरोनाला करावे लागले लॉकडाऊन  
अनेकांच्या रोजगाराचे झाले मात्र मीटर डाऊन ॥

पोलीस देत आहेत दिवसरात्र सक्त पहारा  
टवाळखोरांच्या पाठीवरती देत आहेत ते जबरदस्त मारा ॥

डॉक्टर आणि नर्ससचे मानावे तितके आभार कमी  
कोरोनातून मुक्त होण्याची चला देऊया आपण त्यांना हमी ॥

सफाई कर्मचाऱ्यांचे देखील मनापासून कौतूक  
तेच तर करत आहेत आपणा सर्वांच्या आरोग्याची जपणूक ॥

नेहमीच आपण हॅन्डवॉश आणि सॅनिटाइझरने धूतले पाहिजे हात  
तेव्हाच आपण हिंमतीने करू शकू कोरोनावर मात ॥

मास्कचा वापर करणे नाही गेले पाहिजे टाळले  
कोरोनापासून दूर तेच राहतील ज्यांनी लॉकडाऊनचे नियम पाळले ॥

घरीच बसून आपण आज केला पाहिजे देशाचा विकास  
लॉकडाऊनमुळे मात्र थांबला आहे निसर्गाचा न्हास ॥

स्वतःची स्वतःच आपण केली पाहिजे सुरक्षा  
काहीच श्रेष्ठ नाही आपल्या आरोग्यापेक्षा ॥

सर्व लढा देणाऱ्या कर्मचाऱ्यांना करूया आपण मानाचा मुजरा  
लवकरच कोरोनापासून मुक्त झाल्याचा करूया आपण सण साजरा ॥

चैताली पाटील  
FYBSc., Human Science

## कोरोना

असा कसा कोरोना  
जाता जाईना

कारखाने झाले बंद  
दुकाने झाले बंद  
माणसाने माणसाजवळ  
जाणेही झाले बंद

आर्थिक संकट आहे,  
जागतिक संकट आहे,  
नित्य जीवन जगणे,  
आता कठीण आहे.

ईश्वरीरूपी डॉक्टरांचे  
पित्यासारख्या  
पंतप्रधानांचे,  
सांगणे एकच आहे 'घरी  
राहा'  
माणणे एकच आहे

एकजुटीन आपण सर्व,  
कोरोनाला हरवूया  
श्वास मोकळा घेऊन,  
परत मुक्त होऊया

चैताली पाटील  
FYBSc., Human Science



## आज कहा पहुँच गए हम और कहा रह गए तुम

दिल मेरा नाराज हो जाए  
तो यु हि बैठता था मैं गुमसुम

मुझे लगा कि हम संकट से जरूर लडे है  
क्या मेरी बरबादी की वही असली जडे है

ग्यान नही था सर मे  
मैं खुदको ही अंदर से दफन कर रहा था  
मेरी कमजोरी को मैं ही बढावा दे रहा था  
गलती से किसी से जिंदगी मे मदत हो गई  
वरना मैं जमिन मे धस्ता हि चला जा रहा था

कुछ करने के वास्ते जाता मैं तो कर नही पाता  
कुछ मेरे अंदर कुछ तो है ये जानता था मैं सचमुच

मेरी दिल बात लिखते वरत बैठता था मैं गुमसुम  
खुदके नही दुसरो के जिने के लिए मेरे सपनो को मैने ले लिया चुम

तो देखोना

आज कहा पहुँच गए हम और कहा रह गए तुम

अनुज सरदार  
SYJC



## गुरु

चार दिवारों के बीज अपने ज्ञान के सागर को  
जो बहाता है,  
वो ही एक गुरु कहलाता है।  
जशी शिष्य कठिनाइयों के समुद्र में डुबें,  
अपने ज्ञान के बाहो को फैलाकर गुरु उन्हें  
बचाए।  
उम्मीद से भरा वो सुरज है गुरु,  
जहाँ दुविधाओ से भरे शिष्य आके पुछते  
“आगे क्या करूँ”  
तब अपने ज्ञान की रोशनाई से गुरु,  
उनके जीवन की बंद पडी हुई गाडी को  
कर देता है शुरू।

तन्मय आव्हाड  
SYJC



## Rising Above Pandemic

November 2019. Almost no one among common people in our country knew about the situation we faced after about just six months then and still are facing. This is “once in millennium” sort of condition that no one would have envisaged till the start of this year at least in India.

The situation is COVID-19 virus pandemic that has broken down all the barriers between progressed & non-progressed nations; between wealthy & poor populations, between literate & illiterate people, between all walks of the society. Never ever had anyone such experience in anyone’s life time. What’s more concerning, is, the erratic & negative impact of the virus on the affected person’s body & mind.

Being in the clinical profession (though currently, not very active) and being taught human anatomy & medical physiology in professional courses, I knew little more than about it compared to other people. But the news and events heard, seen & experienced about sudden & abrupt physical, physiological and psychological deterioration in many affected persons made me baffled completely. The physical and to some extent, physiological aspects are dealt with the medical fraternity; but the psychological negativity remains unattended, hence untreated and thus, worsens. Apathy & taboo about the field and few other reasons are responsible for the same. I don’t wish to opine on this as it goes out of the reach of the subject.

Corona pandemic had brought pessimism to the society, I would say. I don’t wish to neither think that I know the problems nor would I claim to know the solutions. So, the reader may take this as layman’s experience-based opinion. For me, the probable answer to the question is building your immunity, that’s resistance power, in simple terms. This can be achieved by regular, balanced diet (needed for your individual well-being), regular exercise (according to your age & capability) and regular rest/sleep (again needed for the individual). These three factors were already covered by the great sage Patanjali in his AshtangYog discourse as three tenets to be followed to achieve physical health- namely, Aahar, Vihar & Vishranti. Alas! if we’d have followed the same; we would not need any artificial immunity booster and would have faced the problem much effectively, efficiently and even successfully.

Whatever I have penned above, are out of my own experience & practice. I reiterate that I am an ordinary person and if I could and can do it, anyone definitely will be able to achieve that. The life is simple, I complicate it; life is beautiful, I refuse to accept the fact and malign it; life is worth living every moment of it joyfully, I refuse to be in the present moment thinking only of the past and become anxious of the future and make it only sorrowful. Pandemic or no pandemic, one shall be able to bring positivity and meaningfulness to one’s life, provided you take appropriate steps in right direction; the latter is easy- not only to say, but to put it into practice. I am doing it, are you? Think over, act accordingly; you will realise that you had already risen above the pandemic!

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What YOU GIVE IS What YOU  
GET





**WE CAN DEFEAT  
COVID-19**

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