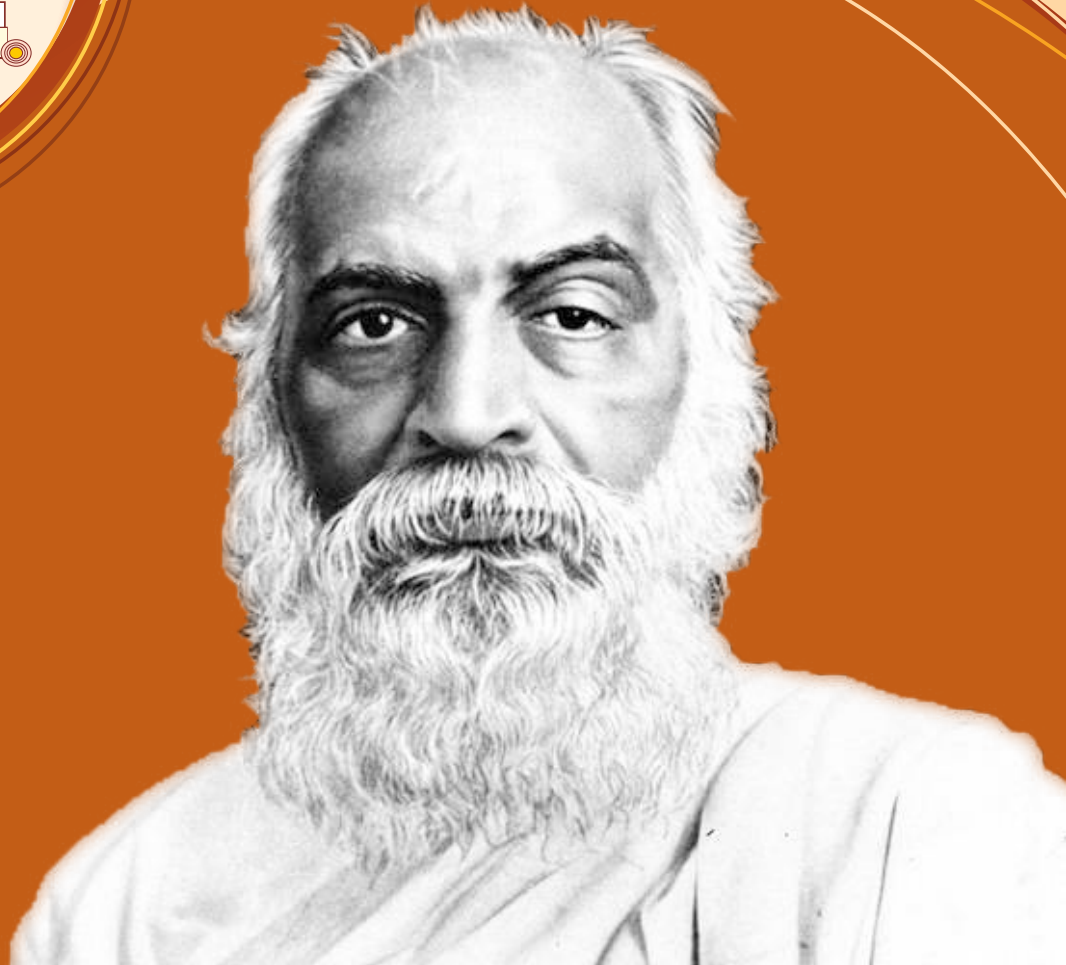


# Reflections

## 2020-21

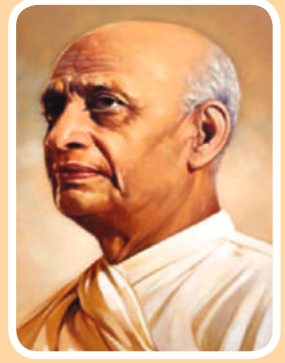


Charutar Vidya Mandal's  
**V. P. & R. P. T. P. Science College**  
Vallabh Vidyanagar - 388 120

# CVM VISIONARIES



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Shri Manishbhai Patel  
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Shri R. C. Talati  
Hon. Jt. Secretary



Shri B. P. Patel  
Hon. Jt. Secretary



Shri Mehulbhai Patel  
Hon. Jt. Secretary



Shri V. H. Patel  
Hon. Jt. Secretary

# V.P. & R.P.T.P. SCIENCE COLLEGE

VALLABH VIDYANAGAR

## Reflections

2020-21

( Annual College Magazine )

### PATRONS

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Dr. S. G. Patel, Secretary, CVM

Prin. R.C. Talati, Jt. Secretary, CVM

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Dr. Bhavesh Patel, Principal

### EDITORS

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Dr. Charudutt R. Gurjar (English Dept.)

### EDITORIAL BOARD

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Dr. R. H. Parab (Chemistry Dept.)

### STUDENT MEMBERS

Ms. Priya Vyas (Student Secretary)

Ms. Palak H. Ramjiwala (General Secretary)



## V. P. & R. P. T. P. SCIENCE COLLEGE

Vallabh Vidyanagar - 388 120

Re - Accredited "A" Grade by NAAC, Bangalore and "A+" Grade KCG  
Four-star rating by GSIRF (Gujarat State Institutional Ranking Framework)

Managed by Charutar Vidya Mandal

Website : [www.vpscience.org](http://www.vpscience.org)

The Editorial Board is not responsible for the accuracy or otherwise for the opinions expressed by the contributors.



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## Message From The Chairman



This year has thrown many challenges at the students and faculty and it is indeed remarkable that we are learning fast and adapted to the situations very well. The CVM at our has tried it best to make all necessary arrangements so that the teaching learning can go on without any problems.

I am glad that despite the pandemic and the fact that the college functioned in offline mode for only about two months, the college has been able to bring out the college magazine this year also. Thus, keeping alive the tradition of the Annual Magazine to showcase the students' writing skills besides other activities. Students must develop this habit of writing. I would have been happier if more students write on science topics. Congratulations to all the contributors.

It is your responsibility to make use of the opportunities that are coming your way to plan your future career. Feel free to talk to your learned faculty for guidance and make appropriate choices. All the best for your future. Be responsible, be safe and keep others safe by following all the guidelines to prevent the spread of COVID infection and help to break the chain.

**Er. Shri Bhikhubhai Patel**

Chairman

Charutar Vidya Mandal

## Message From The Hon. Secretary



Dear Principal, Staff Members and Students,

It gives me great pleasure to write a few words and prologue for 74th Annual College Magazine of V.P. & R.P.T.P. Science College, Vallabh Vidyanagar.

It is exclusively meant for bringing out the potential writing talent as a part of one's overall personality development. I am sure this magazine will help to acquire knowledge and skills, build character and enhance employability of our young talented students to become globally competent. The all-round progress of students is of paramount importance and the most desirable motto as it will help them to empower better India through education.

It is indeed a matter of great pride that this college has made an outstanding progress, in academic, co-curricular and extra-curricular activities. I feel proud of being the witness of such a magnificent institution fully dedicated for the betterment of students. I congratulate all the contributors and the editorial board for bringing out such an outstanding magazine.

My best wishes to all the readers for scaling higher success and achieving newer heights in the coming days.

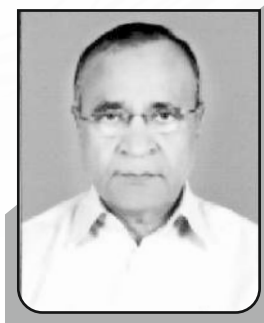
Yours sincerely,

**Dr. S. G. Patel**

Hon. Secretary

Charutar Vidya Mandal

## Message From The Joint Secretary



Dear Students,

We are facing an unprecedented situation. The challenges that life has thrown our way are of different kinds. On the one hand the administration is trying to minimise the casualties, on the other hand the front-line army of doctors, other health care workers, small businessmen, shopkeeper, each one of them doing their best. Students and teachers also have been trying hard to make sense of the whole situation of being suddenly pushed hard into online mode.... something that we always knew is going to come soon. It has given an opportunity to innovate and find home grown tech solutions.

What we are witnessing is not just change but also a great transition. The one who will survive and triumph in these times are the ones who have the ability to adapt, relearn and prepare mentally to harmonize with the changing conditions. So, students should make use of the time made available to them to learn and upgrade to prepare for tough competitions when they complete their graduation. To quote,

“The capacity to learn is a gift;  
the ability to learn is a skill;  
the willingness to learn is a choice.”

Brian Herbert

So never ever stop learning, appreciate the gifts and the skills that you have been blessed with and make the right choices that ensure growth, success, satisfaction and happiness.

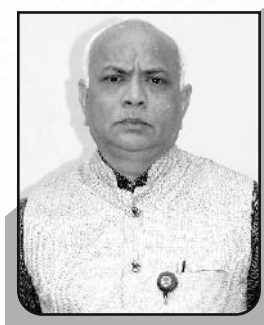
All the best.

**Prin. Ramesh Talati**

Hon. Jt. Secretary

Charutar Vidya Mandal

## Message From The Principal



This has been an extremely challenging year for everybody. No person has remained unaffected by the totally unforeseen situation. However, we did not budge from our obligation towards our stakeholders especially the students.

Friends, we are committed to provide a conducive environment to our students for their all- round growth and therefor all our efforts are student centric. The college teaching faculty and non-teaching staff left no stone unturned in their efforts to ensure that all possible and permissible activities were conducted when the students of First Year and the Final year were able to come to college only for about two months. I am happy to note that we have been able to organize quite a few offline activities like Welcome Party, Talent hunt, Science Carnival, Zoo Fest, Compu-Carnival, class wise counselling for Subject selection at SYBSc etc. Apart from regular online teaching, counselling, Orientation for First Year students, Parent- Teachers Meeting etc.

It is indeed a great pleasure and pride that we have been able to bring this college magazine in this year marred by the pandemic. It is especially heartening to see new students coming forward to contribute for the magazine. This enthusiasm will inspire other students too. Congratulations to all the contributors and the Literary Club for this effort. I would like to end with a quote that always inspire me,

*"I can't change the direction of the wind, but I can adjust my sails to always reach my destination."*

All the best.

**Dr. Bhavesh Patel**

Principal

## Message From The Vice President



Education in its true sense is an ecosystem that helps students follow their natural curiosity and unravel their unique career paths. Education should give wings to their ideas and embolden them to start independent successful ventures.

It has been an honor and privilege to be the Vice President of the College Central Committee. Quality education is not a matter of chance. It is carefully and consciously cultivated. It can turn to a reality when a college establishes Centers of Excellence and envisions a college as a space to promote a community of scholars, thinkers and leaders. The college continues to create and sustain intellectually challenging programs of academic study and to advance our commitment to provide a vibrant, diverse and supportive campus environment.

'Reflections' is the medium of expression for students and staff to present their ideas. I congratulate all the staff and students for making the magazine possible by the varieties of articles. I appreciate all the students who got to experience the joy of participation in co-curricular and extra-curricular activities along with their commitment to academics.

I take this opportunity to thank the Principal, the Central Committee, Ex Officios of various clubs, Student Secretaries, faculty members and students for their support and cooperation throughout the year.

**Mr. R. H. Sadhu**

Vice President

Students' Central Committee



## Message From The Editors



We are pleased to put a copy of this year's college magazine in your hand. We congratulate all the contributors who submitted their articles on diversified topics. In this pandemic situation, despite most students were not available on the campus for most of the year we have continued our tradition to publish college magazines every year.

Our college conducts many creative activities throughout the year for the overall development of the students. Writing is a creative activity. Most The writing process requires discipline and logical expression of the students write in examinations but it is not their creation. thoughts and ideas. The great Einstein once said, " Creativity is seeing what others see and thinking what no one else has ever thought". Creativity is one the most important characteristics of any successful person which makes him or her stand out from the crowd. Thus, developing creativity in your life is a need All of the hour.

Most of us have spent a long year in a pandemic situation. We still do not know when we will start living in a normal world. Many students use have used this time to learn new things, learn to play a new instrument, read any new books, write articles on the topics. Many also attended webinars, online workshops, etc. We hope all the students continue to invest their time in productive endeavours in the coming months too.

Many science students are very curious to know new recent developments in science. In the pandemic situation, they attended webinars, online workshops, etc. Many science students also used their leisure time to read and write on some topics of the science of their interest.

We accept your suggestions (drarjivani@gmail.com) for improvement of the quality of the magazine in future.

**Dr. Anil R. Jivani**

**Dr. Charudutt R. Gurjar**

Editors

## Message From The General Secretary



"A leader is one who knows the way, goes the way and shows the way".

I feel proud to be the General Secretary of V.P. and R.P.T.P. Science College. The college has completed 74 marvellous years by accepting new perspectives and by achieving, unparalleled, extraordinary achievements.

Achievements of our college is the reflection of valuable contribution of students, professors and every person associated with the college. The college organised number of events throughout the year for the overall development of the students. In all events students participated enthusiastically and unitedly. Because of unity, success can be achieved in any work.

Coming together is a beginning,

Keeping together is a progress

Working together is a success.

I would like to thank our Principal, Dr. Bhavesh Patel Sir and Vice-president of the Students' Central Committee, Sadhu Sir for their constant support throughout the year. I am also thankful to all staff members and my fellow student friends for their co-operation, participation and support.

**Ms. Palak H. Ramjiwala**

General Secretary

## Message From The Student Secretary



It gives me great pleasure to write this message. It's always joyful to read budding writers. V. P & R. P. T. P. Science College is doing a great job by giving this raw talent a platform to try their hand in writing which is so essential for future scientists.

Annual college magazine is truly a "Reflections" of students' ideas, thoughts and hard work. I am sure that this magazine will inspire the future students to come up with even better articles.

I am grateful to Principal Dr. Bhavesh Patel Sir, Vice- President of the Students' Central Committee Sadhu Sir for giving me this opportunity and support. I am also thankful to Dr. A. R. Jivani and Dr. Charudutt Gurjar, ex-officios of Literary Club, my committee members and all my dear student friends for their co-operation and support.

My best wishes to all my student friends.

**Ms. Priya Vyas**

Student Secretary

Literary Club

## 74<sup>th</sup> ANNUAL REPORT OF THE COLLEGE Year 2020-2021

### Total Enrolment

Program	Semester	Total
BSc	I	875
BSc IC (V)	I	35
BCA	I	54

### Examination Results

Program	S P University	College
BSc (Sem. I)	68.56	74.93
BSc (Sem. III)	58.66	69.74
BSc (Sem. V)	62.85	82.57
BCA (Sem. I)	76.86	82.35
BCA (Sem. III)	83.11	82.14
BCA (Sem. V)	92.05	97.14

### ❖ ACTIVITIES OF IQAC:

- **Applied for Autonomy to the UGC on the portal.**
- Organized a national webinar on “Revised Accreditation Framework: Understanding and Challenges” On 30<sup>th</sup> January 21
- This year MHRD has invited applications for **the National Institutional Ranking Framework [NIRF], & Gujarat Institutional Ranking Framework (GSIRF)**. Our college has applied for its online data submission.
- The college was awarded 4 Stars by GSIRF.
- Created learner-centric environment for quality education and faculty maturation to adopt the required knowledge and technology for participatory teaching and learning process through “**Knowledge repository**” in which few more Video lectures, a few PowerPoint presentations, and notes are available for various subjects taught in our college.
- Organized **Exit meeting with TY BSc Students** for personal feedback as well as to provide the opportunity to express their views about the College.

### ❖ STUDENTS’ ACHIEVEMENTS:

- Pritesh Patel of FYBCA & Shivam Patel of TY BCA secured 1<sup>st</sup> Rank in University Exams of Semester 1 & Semester V, respectively.
- Parthkumar S. Valand Secured 7<sup>th</sup> Position in State level A. R. Rao Project Competition 2020-21 conducted by Gujarat Ganit Mandal.
- Divy Gunvant Solanki, Amisha Manubhai Gohil, Vishva Ghanshyambhai Dave secured top 10 positions in Vallabh Vidyanagar Centre at the National Level NGPE Exam conducted by the Indian Association of Physics Teachers.
- In the Inter-Collegiate State level Compu- Carnival, the following students won prizes: Jeel M. Gohel, Jaydipsinh Zala, Chiragbhai Vanzara Secures 1<sup>st</sup>, and 2<sup>nd</sup> Position respectively in POSTER COMPETITION.

- Saloni Champavat and Nishtha Panchal of SY BSc (CS), Shubham Santoki of TY BSc (CS) got 1<sup>st</sup> and 2<sup>nd</sup> Positions, respectively.
  - **NCC:** Karamveer Bagul (TYBCA) got 'B' Certificate NCC.
- ❖ **INDUSTRIAL EDUCATIONAL TOURS / TRAINING FOR STUDENTS/FIELD PROJECTS:**
- Chemistry Dept. organized Training of IR and NMR at SICART, Vallabh Vidyanagar and 59 students participated.
  - Biology Dept. organized a trip to Botanical Garden in which 28 students participated.
- ❖ **PLACEMENT CELL:**
- 26 students took part in Mega Job Fair-2021 organized by BVM College, VV Nagar.
  - 185 students of TY BSc attended a guest Talk by Professor Dr. Rajubhai Rathod.
- ❖ **ACHIEVEMENTS OF FACULTY/APPOINTMENTS:**
- Dr. Minaxi Vinodkumar has been invited to be Associate Editor in the journal of Frontier in Physics, an open-access journal for the Atomic and Molecular Physics section.
  - Mr. Rajesh P. Solanki, Head, Mathematics Dept was appointed as Member, BoS of Mathematics, SP University for the period 2021-23.
  - Ms. S.K. Menon appointed as a Head of Microbiology, and Mr. R. P. Solanki was appointed as a Head of Mathematics and Statistics Department.
- ❖ **Ph.D. STUDENTS REGISTERED BY THE FACULTY:**
- Ms. Princyben Patel registered in Industrial Chemistry Dept. under Dr. P. M. Patel.
- ❖ **PUBLICATION IN UGC APPROVED JOURNALS:**
- Dr. Nikunj Bhatt & Ms. Diyangi Thaker: Nesting, Protective and Foraging Behaviour of *Oecophylla smaragdina* (Weaver Ants) in Anand, Gujarat Advances in Zoology and Botany 8(4): 351-357, 2020.
  - Dr. Nikunj Bhatt and Ms. Urvi Dave: Basking Behaviour of Marsh Crocodiles (*Crocodylus palustris*) in Pond Deva, Anand District, Gujarat, India. Accepted in the journal of Reptiles & Amphibians IRCF.
  - Dr. Nikunj Bhatt & Ms. Urvi Dave: Determination of prey base and prey preference of marsh crocodile (*Crocodylus palustris*) by scat analysis in selected villages of Anand district, Gujarat, India [Accepted]
  - Dr. Minaxi Vinodkumar: in Molecular Physics "Theoretical investigations of structural, spectroscopic and electron collision data of acetone"
  - Mr. Ashish Joshi: Data Pre-processing: The Techniques for Preparing Clean and Quality Data for Data Analytics Process" in an International Research Journal of Computer Science and Technology. (ISSN: 0974-6471 Online ISSN: 2320-8481.
  - Dr. J. K. Chauhan: The effect of Resistance Training and Circuit Training on Vital Capacity among College Male Basketball players in online International Research Journal of Phy. Edu. and Sports Sciences ISSN. No. 2394-7985, Vol VIII, Issue 1, Aug. 2020
- ❖ **BOOKS PUBLISHED:**
- Dr. P M Patel: College Physics -1 ISBN No. 978-93-85173-35- (2020-21)

## ❖ CHAPTERS PUBLISHED:

- **Ms. Vanita Patel:**
- “Chapter 11 White Rot Fungi: Nature’s Scavenger” in Microbial Bioremediation and Biodegradation, Springer, 978-981-15-1811-9, 978-981-15-1812-6(e-book)
- Chapter 4 Emerging Technologies in Environmental Bioremediation, Elsevier, 978-012-819860-5

## ❖ PAPER/POSTER PRESENTATIONS:

- Dr. Nikunj Bhatt: Paper presented at an International Conference Organized by ISCA.
- Dr. C. R. Gurjar and Ms. Shabnam Lohani: Teaching Legal English to Students of Law: Challenges & Strategies, National level Webinar on Post Method Pedagogy, H. M. Patel Institute of English & Research, VV Nagar.
- Mr. R. H. Sadhu and Mr. Ashish Joshi: The significance of ICT in a different stages of NAAC process for Higher Education Institutes, NAAC Sponsored online National Seminar on Revised Accreditation Framework: Understanding and Challenges, IQAC of V. P. and R. P.T. P. Science College – Vallabh Vidyanagar.

## ❖ WORKSHOPS/SEMINARS ORGANIZED:

- Dept. of Electronics organized a state-level webinar on the Dynamic of Electron Collision Process (8<sup>th</sup> November 2020).

## ❖ FACULTY AS GUEST SPEAKERS/VISITING FACULTY/RESOURCE PERSON

- Dr. Nikunj Bhatt: Invited lecture at International Workshop organized by ISCA, 5th Aug 2021.
- Dr. Nikunj Bhatt: Presidential Lecture, at International Conference Organized by Rajyaguru College of Science, Pune.
- Dr. B. C. Dixit: Environmental Chemistry, Sem I, M. Tech. BVM Engineering College, VV Nagar, December, January, February 2021.
- Dr. Vipul Kataria: Spectroscopy, Patel J. B. Rudelwala Arts, Patel A. M. Rudelwala Commerce & Patel J. D. K. Davolwala Science College, Borsad on 25th February 2021
- Dr. C. R. Gurjar: Communication Skills for Law Students, Anand Law College, 24/5/2020

## ❖ WORKSHOPS/SEMINARS ATTENDED:

- **Chemistry Dept:** Dr. B. C. Dixit: 06, Dr. K. D. Patel: 21, Dr. G. M. Patel: 01, Dr. M. G. Patel: 15, Dr. Vipul Kataria: 06
- **Physics Dept:** Dr. P. M. Patel: 03, Dr. A. R. Jivani: 01, Dr. T. H. Patel: 04, Mr. L K Chauhan: 05
- **Mathematics & Statistics:** Mr. R. P. Solanki: 01, Dr. Dinesh Verma: 01, Mr. H. B. Madhwani 01, Mr. Tejaskumar Sharma: 03
- **Microbiology Dept:** Dr. H. N. Patel: 03, Ms. S. K. Menon: 10, Mr. A. Sheikh: 07, Mr. A. A. Shukla: 02, Ms. Vanita Patel: 12
- **English Dept:** Dr. C. R. Gurjar: 06
- **BCA Dept:** Mr. Aashish Joshi: 01, Dr. Navtej Bhatt: 05

## ❖ FACULTY DEVELOPMENT PROGRAMS:

- Dr. C. R. Gurjar: Attended one-week FDP on E-content Development, Organized by UGC-HRDC, Gujarat University, Ahmedabad.
- Dr J K Chauhan was Badminton Doubles Champion in "4th Gujarat State Masters Games -2021 at Vadodara for the second year in succession. He has also been selected for National level Competition.
- Mr. Tejaskumar Sharma: 05 FDPs
  - 5 days online STTP on "MATLAB based Teaching Learning in Mathematics, Science & Engineering Design Tech System Pvt. Ltd., Dept. of Engineering, Ramrao Adik Institute of Technology, D. Y. Patil University, Navi Mumbai.
  - 6 days online FDP on "Application of Mathematics in Engineering and Sciences", KADAPA20, A. P. Sri Venkateshwara Institute of Science and Technology, KADAPA.
  - One week FDP on "Python", conducted by Dept. of Computer Science, Shri Vile Parle Kelavani Mandal's Institute of Technology, Dhule, under Spoken Tutorial, IIT Bombay.
  - 5 days FDP on "Mathematical and Computational Modelling", TEQIP-III, Rajasthan Technical University, Kota and Anand International College of Engineering, Jaipur.
  - A one-day workshop on "SAGE for Mathematics and Engineering", Dept. of Mathematics, Bannari Amman Institute of Technology, Tamil Nadu.

## ❖ GUEST TALKS ARRANGED

### Chemistry Dept:

- Prof. D. K. Raval (S. P. U.) on "Conformational Analysis".
- Dr. M. N. Patel (S.P.U.) on "Wave Mechanics: Correlation Diagram and Term Symbol".

### Biology Dept:

- Dr. Neeraj (A. N. Patel, Anand) on "Recombinant DNA technology".

### Physics Dept:

- Prof. M.P. Deshpande (Physics Department, S.P.U.) on "Material at Nano Scale".

### Ind. Chemistry Dept:

- Dr. Atulkumar R. Raja (GHARDA CHEMICAL, General Manager R&D & QA, Dombivli, Mumbai) on "Industrial Chemistry v/s Academic Chemistry".
- Dr. Vimal G. Gandhi (Department of Chemical Engineering, DDU, Nadiad) on "Introduction to Mechanical Operations".
- Dr. Mathurkumar Bhakhar (Department of Chemical Engineering, G H Patel College of Engineering & Technology, CVM University) on "Introductions to Fluid Flow Operations".
- Dr. Tejal Patel (Dept. of Chem. Engineering, G H Patel College of Engineering & Technology, CVM Uni) on "Effective Occupational Safety Management".
- Prof. D. I. Brahmhatt (Ex-Head & Professor, Dept of Chemistry, S. P. U.) on "Introduction to Proton NMR Spectroscopy".
- Mr. Jignesh Mehta (Chem. Engineering Department, School of Engineering, P. P. Savani University, Surat) on "Important Aspects of Plant Design & Economics".

### BCA Dept:

- Dr. Niky Jain (IT Department, ISTAR) and Dr. Unnati Patel (GIS Department, ISTAR) Career Guidance and Orientation.

❖ **EVENTS ORGANIZED BY THE DEPARTMENT (OTHER THAN GUEST TALKS):**

**Biology Dept:** Zoo fest and In-house Seminars

**BCA Dept:** Compu- Carnival

❖ **STUDENTS PARTICIPATION IN VARIOUS COMPETITIONS/ SEMINARS:**

- 22 students of the Chemistry Dept took part in GUJCOST sponsored National Virtual Seminar 25, 26 February 2021, ARIBAS, New Vallabh Vidyanagar.
- Hasmita Patel, Ranchhod, Hetsvi of Biology took part in the Science Carnival organized by the Science Club of the college.
- Vandana of Biology took part in Kavyapathan, Intercollege Competition organized by SP university.
- 5 Students participated of Mathematics & Statistics in Prof. A. R. Rao Project competition 2020-21, Gujarat Ganit Mandal, Ahmedabad.
- Parthkumar S. Valand, Jeel M Gohel, Jaydipsinh Zala, Chiragbhai Vanzara of Mathematics & Statistics took part in Intercollege Poster presentation at science carnival 2020-21 organized by the Science Club, V. P. Science College, Vallabh Vidyanagar

❖ **MISCELLANEOUS:**

- Many faculty members passed the CCC+ Examination Conducted by Baba Saheb Ambedkar Open University, Gandhinagar.

❖ **RETIREMENT:**

- Dr. H. N. Patel, Head, Microbiology Dept.
- Mr. Nilesh Y. Patel, Head, Mathematics & Statistics Dept. took VRS.

## Report of the Students' Central Committee Year: 2020-2021

President: **Dr. Bhavesh Patel**

Vice President: **Prof. R. H. Sadhu**

General Secretary: **Ms. Palak H. Ramjiwala [ TYBSc (Maths)]**

### ❖ SCIENCE CLUB:

Ex-officio: **Dr. T. H. Patel (Physics)**

Student Secretary: **Mr. Priyank Bhoi [TYBSc (Physics)]**

#### • Events organized by the Club:

- Organized Inter-college Science Carnival on **5<sup>th</sup> March, 2021**

#### • Events held in the carnival:

- **Intercollegiate PPT Presentation Competition:** No. of Participants: 44

#### Topics:

- [a]** Science, Technology and Innovations
- [b]** Environmental Threats in 21<sup>st</sup> Century
- [c]** Artificial Intelligence and Life in 21<sup>st</sup> Century

- **Intercollegiate Poster Presentation Competition:** No. of Participants: 76 (44 Posters)

#### Topics:

- [a]** Innovative Gadgets of 21st Century
- [b]** Corona Pandemic: Our Learnings
- [c]** e-Learning and Future Education

### ❖ NATURE CLUB:

Ex-officio: **Ms. M. K. Patel (Biology)**

Student Secretary: **Ms. Hasmita Patel [TYBSc (Botany)]**

The following activities were conducted by the club:

- [a]** **Nature Photography Competition** was conducted on the subjects like *Leaf, Tree, Sky, Flower, Insect, Nature and the Campus.*
- [b]** **Essay Writing Competition** on the topics *Animal Conservation, Effects of Govt. Policies on Forest (EIA), Plants and Pandemic and Science behind Tradition.*
- [c]** **Poster Making Competition** was conducted on 4<sup>th</sup> March, 2021 on the topics *Nature as Paradise, Autumn- spring, Motherhood in Animals and Fierce Nature.*

### ❖ LITERARY CLUB:

Ex-officio: **Dr. A. R. Jivani (Physics) and Dr. C. R. Gurjar (English)**

Student Secretary: **Ms. Priya Vyas [TYBSc (Chem.)]**

Besides motivating students to contribute to the college magazine, the club also organized Essay Writing Competitions, Article Writing Competition and published the

Annual magazine. Winners of the Essay Writing Competition are: Mr. Yagnesh Patel (FYBCA) and Ms. Carollina C. Mascaren (FYBSc)

## ❖ DEBATE CLUB:

**Ex-officio: Mr. H. B. Madhwani (Statistics)**

**Student Secretary: Ranchhor Gumansingh [TYBSc (Botany)]**

The club organized an online Extempore Speech Competition (On the spot speech) on 18th March, 2021.

Result:	First:	Vedant Raval (FYBSc)
	Second:	Sakshi Deheri (SYBSc) and Dhruva Kapdi (SYBSc)

## ❖ FINE ARTS CLUB:

**Ex-officio: Mr. L. K. Chauhan (Physics)**

**Student Secretary: Mr. Pranavkumar Joshi [TYBSc (Botany)]**

The following events were organized by the club:

**[a] Poster Making Competition:** 10 students participated in the event.

Result: First: Sathwara Luv D.

**[b] Cartoon Making Competition:** No. of Participants: 8

Result: First: Shaikh Mohmmad Sahil S. (FYBSc)

Second: Patel Deexa Jayesh (FYBSc)

**[c] LOGO Making Competition:** No. of Participants: 15

Result: First: Bhoi Hemangi J. (FYBSc)

Second: Pranav G. Joshi (TYBSc)

**[d] Installation Competition:** No. of Participants: 05

Result: First: Solanki Khushi (FYBSc)

## ❖ SPORTS CLUB:

**Ex-Officio/ Sports Dept: Dr. J. K. CHAUHAN (Physical Training Instructor)**

**Students Secretaries: Deep Khambholja (IC) Mansi Makwana (Mathematics)**

**Students Sports Committee Members:**

Umang Dubey, Akil Malek, Het Kasondra, Dhaval Kolcha, Mann Kotadia, Shwetal Macwan  
Charmi Patel, Shah Prachi, Pathan Taskimasaba, Pathan Tasmiyarizwan

The following events were organized by the club:

### • VPCL Inter-class Cricket Tournament 2021:

Total 180 players (168 FY + 13 TY Students) of different departments took part in Inter-Class Cricket (VPCL) Tournament organized by the Sports Club.

### • Achievement of Students:

- Ms. Meera Shukla (FYBSc) and Ms. Khushi Vanand (FYBSc) were selected for the Anand District Senior Kabaddi team and both played in Gujarat State Kabaddi Association Senior State Level Women's Competition at Bharuch in 2021.
- Mayur Suthar (FYBSc) got a silver medal in all Gujarat Open Boxing Championship sponsored by Paramount Academy, Anand.

## ❖ NATIONAL CADET CORPS (NCC):

**Ex-Officio: Maj. M. M. Morekar (Chemistry)**

**NCC-Boys-Rohan Bhatt [TYBSc (Micro)] NCC Girls-Priya Ronny [TYBSc-(CS)]**

**Total Year wise strength: 110 [35 FY+ 38 SY + 37 TY]**

### • Activities conducted by NCC:

During the academic year of 2020–2021, NCC officer Major Dr. M. M. Morekar and a few NCC cadets attended various camps as given below.

- 70 Cadets attended CATC Camp at Rampura
- 2 cadets attended online Ek Bharat Shreshth Bharat Camp.

### • Activities conducted by NCC in the college

- Independence Day Celebrations on 15<sup>th</sup> August 2020.
- Republic Day Celebrations on 26<sup>th</sup> January 2020 at Shastri Maidan, Vallabh Vidyanagar. SUO Bhatt Rohan Sureshbhai (TYBSc) was the PARADE COMMANDER of the Republic Day Parade.

### • Best NCC CADET: SUO Bhatt Rohan Sureshbhai (TY BSc)

#### Other Activities conducted by the NCC:

- Organized online Cadets Orientation programme.
- Organized Webinars on "NEW EDUCATION POLICY ", SSB OLQS - The New Norm For all Careers, B.R Ambedkar Life Works/Stories.
- Organized Article Writing Competition on Kargil Vijay Diwas, Community Development and Sports and Adventure Training.
- Video Show on Health and Hygiene Campaign, Attma Nirbhar Bharat Campaign
- Marathon for "FIT INDIA" Campaign (1 - Month)
- Other Imp Events: Blood Donation Camp, Constitutional Day Pledge, NCC DIGITAL FORUM, C.O. Sir visit College and Rank Ceremony, Campus Cleaning, Inauguration of Train at Statue of Unity.
- Drawing Competition on World Water Conservation Day

## ❖ NATIONAL SERVICE SCHEME (NSS):

**Ex-Officios: Mr. A. K. Patel (Chemistry) & Dr. Rajiv Z. Bhatti (Biology)**

**NSS-Boys-Gaurav Valand [TYBSc (Zoology)] Girls-Mansi Hadiya [TYBSc (Micro)]**

### • Guest Talks:

Sr. No.	Topic	Speaker	Participants
1	Role of Youth in Environmental Conservation	Manish Vaidya	68
2	Wildlife Conservation	Uday Vohra	50
3	Mahangatha Mere Vatan	Harishkumar Vyas	30

- **Other activities conducted by NSS:**

Sr. No.	Activity	Participants
1	Orientation Programme	350
2	Preparing Handmade Mask	80
3	Distribution of Handmade Masks in the College	25
4	Ukada distribution by Dr. Rajiv Z. Bhatti	
5	Plantation at home	25
6	Seed ball dispersal at Kherda	05
7	Virtual visit of Vherakhadi (Celebration of World Wildlife Week)	50
8	Elocution on "India Past and Now"	25
9	SOHAM Five days webinar with JCI-Anand	78
10	Pre-RD Camp at Hyderabad by NSS Volunteer Gaurav Valand	01
11	Visited adopted village – Ankavadi	06
12	Pushpanjali and Suryanamaskar on Swami Vivekanand Janam Jayanti Celebration	100
13	Exhibition on "Road Safety Month"	100
14	National workshop on Road Safety	70
16	Workshop on E-Waste Management	06
17	Campus cleaning	75

❖ **CULTURAL CLUB:**

- **Results of the Talent Day:**

- **Voice of VP**

**Winner:** Rohan Bhatt (TYBSc)

**Runners-up:** Nirvang Patel [TYBSc (Chemistry)]

- **Dance: - Group Dance**

Gaurav Choudhary, Gaurang Prajapati, Pranav Joshi, Vatsal Raj, Aniket Limbani, Archana Panchal, Anushka Mahida, Nandini Patel, Monica Dobariya, Falguni Rathva, Hardi Patel, Sheetal Machhi, Devanshi Panjabi, Kesha Mistry, Harishchandra Solanki, Aashish Upadhyay

- **Anchoring: -**

**Master of Ceremony**

**Male:** Ranchor Guman Singh [TYBSc (Botany)]

**Female:** Riddhi Limbachiya [TYBSc (Biology)]

- **Drama: Best Performer**

**Winner:** Gaurav Valand [TYBSc (Botany)]

**Runner up:** Hariom Patel [TYBSc (Botany)]

# Activities of the Clubs 2020-21



Science Carnival

# Activities of the Clubs 2020-21



Cultural Club



Nature Club

# Activities of the Clubs 2020-21



Debate Club



Womens' Cell



VPM IAS Study Club



Placement Cell

# National Social Service (NSS) - 2020-21



## THE SKY IS YOURS!

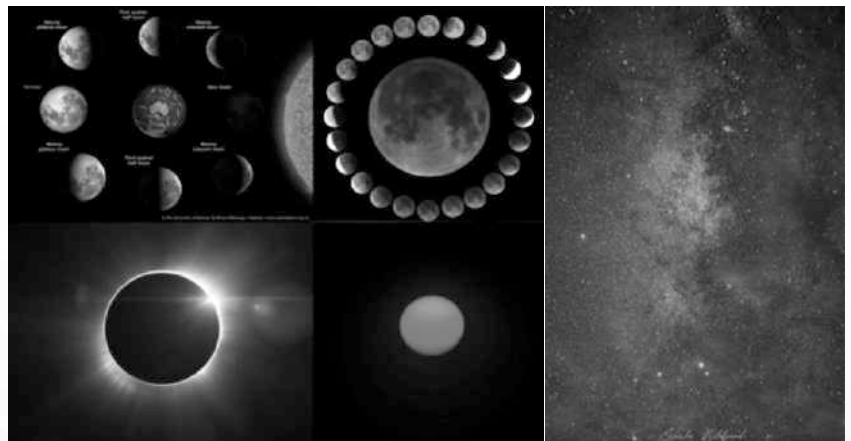
When you hear about astronomy or stargazing, we will think about large telescopes and galaxies, but I want to share some fascinating facts about stargazing.

First of all, if you are interested in astronomy and want to see the art of nature and the universe, then this article is for you.

In the beginning, there is no need for binoculars, monocular, or telescopes for the star gazing, you just need your god-gifted eyes. It is more than enough to increase your interest in stargazing. Usually, telescopes are used to concentrate on a particular star & star cluster, planet, nebula, galaxy etc. and to view Deep-sky objects (DSO) which can't be seen with naked eyes. You will be amazed by the facts that you can see stars, constellations, planets, nebulas, the milky way band, and star clusters with the naked eye. Once you become familiar with sky viewing you can go with binoculars and then telescopes also.

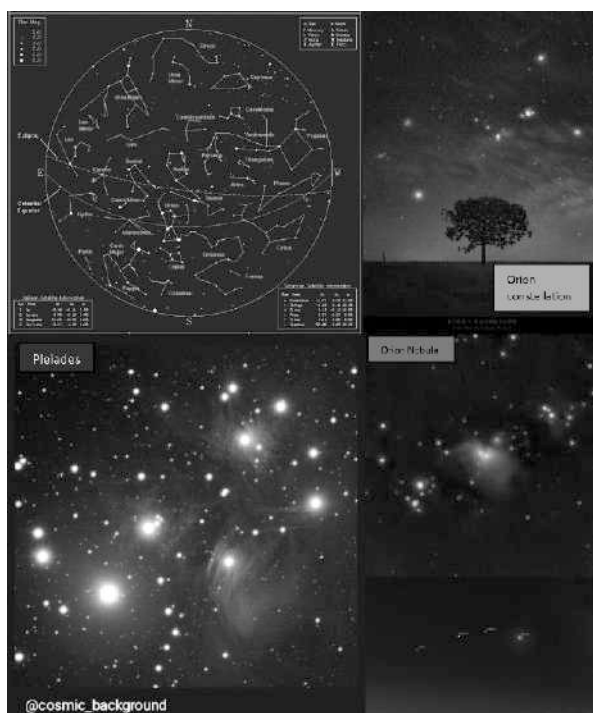
Every day, there are lots of astronomical events, but we are busy with our schedules and we miss that awesome view of the universe. Just some months before the famous comet Neowise C/20202 F3 passed near the earth and was visible with naked eyes.

As a layman, we have seen the moon daily, but as a beginner, we focus on that, the moon is not same daily because it changes its size, shine (sometimes shapes also) and timing of rising are not same and even its color during the time of rising are also different like, strawberry moon, blood moon, pineapple moon, blue moon, etc... You may know that the Earth is rotating around Sun in an elliptical orbit and the moon rotates around the Earth. At the time of 'Amavasya' (Dark Moon), Sun and Moon are in the same direction from the Earth, but the orbits of the moon and sun don't intersect every month, hence the solar eclipse doesn't happen every month. As the day passes moon moves far from the sun and we can see its phases. On the day of the full moon sun and moon are in opposite directions, but the orbits of the moon and sun don't intersect every month. Hence, we can see the full moon every month but we can't see a lunar eclipse every month.



As per the above image we have seen the milky way in photographs only but if you think that the milky way is just an edited photograph then you are wrong. I want to tell you that the milky way is visible with our naked eyes, but at the dark sites only. Due to light pollution, we are unable to see it at our home places, so don't worry that you can't see the milky way, but there are so many other objects in the universe that you can see with the naked eyes.

**1. Planets** – We can see different planets like; Mercury, Venus, Mars, Jupiter and Saturn as like a star. But Uranus and Neptune are far from the sun and they have greater apparent magnitude so we are unable to see them with naked eyes.



**2. Constellation** – 12 Zodiac signs (Aries, Taurus, Gemini, Cancer, Leo, Virgo, Libra, Scorpio, Sagittarius, Capricorn, Aquarius, Pieces) Orion, Cygnus, Cassiopeia, Andromeda, Great bear (Big Dipper/ 'Saptarishi' / Ursa Major) etc.

**3. Other Objects** – M45 (Pleiades star cluster – 7 Sister/ 'Kritika' ), Orion Nebula, Comets.

**4. Some Brightest Stars –**

**5. Meteor Shower** – A meteor is a space rock or meteoroid that enters the Earth's atmosphere. As the space rock falls toward Earth, the resistance or drag of the air on the rock makes it extremely hot. What we see is a "shooting star." A meteor is smaller than a grain of sand. And it just look likes a fireballs in the night sky and just seems as crackers in the sky which the supernatural power crackling it. There are different types of



meteor showers coming in a year. They have different types of colors too like Yellow, Red, Purple, Blue, Orange etc. which represent different chemical compositions such as Yellow – Iron, Red – Nitrogen/Oxygen, Purple – Calcium, Blue – Magnesium, and Orange – Sodium.



❖ **Geminids** – 120 to 160

meteors/hrs from 4<sup>th</sup> December to 17<sup>th</sup> December originated from an asteroid 3200 Phaethon.

❖ **Perseid** – 100 meteors/hrs during 17<sup>th</sup> July to 24<sup>th</sup> August originated from comet swift-Tuttle.

❖ **Other** – Leonids, Orionids, Draconids, Arietids, Ursids, and so many others.

Astronomy is not limited tonight; there are daytime events too. Like a solar eclipse, Zero shadow day, Venus and Mercury transition across the sun.

Researchers claimed that your naked eyes limit is +6.5 Magnitude at dark sites. Visual magnitude is a measure of the brightness of an astronomical object from the Earth. As Visual magnitude decreases as brighter the object is. For example, Sun has a magnitude of -26, the full moon has -13, Venus (Planet) has -4.9, Planet Mercury has +0.23. Means Venus is much brighter than Mercury and Full Moon is brighter than Venus.

The number of stars you see from your homeplace is depended on various factors of Air pollution, light pollution and cloudy weather at your site etc. Fewer lights and less pollution mean greater visibility of stars.

Once Gandhiji wrote: "Both children and grown-ups love dramas and the spectacular scenes which they present. But no drama composed or acted by human beings can even equal the great spectacle which nature has arranged for us on the stage of the sky". He added: "Watching the stars soothes the eyes; to watch the stars, one must remain outdoors, and this gives fresh air to the lungs; and we have heard of no instance so far of harm having

been done to a moral character by watching the stars. The more we meditate on this miracle of God, the more we grow spiritually".

In this modern technological era, everything is easy to learn. You can download different applications just like Sky-Safari, Sky-portal, Sky-Guide, Star tracker, Indian Sky Map, Mobile observatory etc... and even with the given below links.

[https://theskylive.com/locationpicker?back\\_url=https%3A%2F%2Ftheskylive.com%2Fcomets](https://theskylive.com/locationpicker?back_url=https%3A%2F%2Ftheskylive.com%2Fcomets)

<https://in-the-sky.org/newscal.php?year=2020&month=4>

In conclusion, start stargazing and as time passes you will be got amazed by the beauty of nature as well as the universe and just enjoy it, but you have to pay in the form of coming out of ignorance. So, Go... Get... And **THE SKY IS YOURS.....**

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Meteor shower: candy's captures

Brightest stars: Instagram @scienceoftheuniverse Pleiades: Instagram @cosmic\_background Constellations: [www.pinterest.com](http://www.pinterest.com)

Solar eclipse: Hindustan Times

Gandhiji's Written Thoughts: [www.theweek.in](http://www.theweek.in)

**Parmar Himani**

TY BSc (Physics)

*"Look at the sky. We are not alone. The whole universe is friendly to us and conspires only to give the best to those who dream and work."*

– A. P. J. Abdul Kalam

## Why we should learn Green Chemistry

*"As an Alternative Tool for Reducing Pollution"*

The concept of green processes and technologies is environmentally friendly; improved and utilized in such a way so that it doesn't disorganize the environment and conserve natural resources. Some people refer to green technology as environmental technology and clean technology. The existing expectation in this field will bring novelty and innovation changes information technology. Besides, today due to the importance of these technologies, most governments take initiatives to promote them. Therefore, government recommended many financial incentives to generate electricity from renewable resources. The goals of green technologies are as follow: to meet the needs of society in a way without depleting or damaging natural resources on earth which is the major target of green technologies. The concept is to make products that can be fully reclaimed or reused. Furthermore, by changing the patterns of production and consumption, steps are being taken into account to reduce waste and pollution as one of the most indispensable aims of green technologies.

Many companies have committed themselves to establishing manufacturing practices and business regarding green technologies. Besides, this kind of technology implies a system that utilizes innovative techniques to create environmentally friendly products. Predominantly, it contains the various everyday cleaning products, waste, inventions, energy sources, clothing and a host of others. Going green or using environmentally friendly technologies are amongst the many methods which countries are looking to in order to spur economic growth and develop the lives of their citizens. Green processes and technologies use renewable and natural resources which never deplete. Besides, green technology utilizes innovative and new techniques in terms of energy generation. Furthermore, green nanotechnology which utilizes green chemistry and green engineering is one of the newest green technologies.

**Pandey Anurag V.**

SY BSc (Chemistry)

*Green chemistry is replacing our industrial chemistry with nature's recipe book. It's not easy, because life uses only a subset of the elements in the periodic table. And we use all of them, even the toxic ones.*

*- Janine Benyus*

## Innovative Gadgets of 21<sup>st</sup> Century

In today's revolutionary world .. the scientists are on the verge of a new era ..... one should know that scientists have made the most ... impeccable discovery of the .. new generation.. the gadgets we use in day to day life are so important that we cannot imagine without them the gadget which is in our poster is of about 21 century .. dealing with all the fields ... e.g. .. 1) medical 2) industry 3) defense 4) household 5) entertainment.

In the medical field the **THERMAL GUN** has become the most visible during corona pandemic which works as the following IR thermometer works by focusing light that is coming from the object in the form of IR rays and funneling that light into a detector – which is also known as a thermopile. It is in the thermopile that the IR radiation is turned into heat which is then turned to electricity, which is then measured for defense purposes.

The use of **Spy Camera** and **Military Wrist Display** .. Hidden cameras may also have audio capability. A hidden camera may be activated manually, by remote control, or be connected to a motion detector. Wireless spy cameras are cameras that do not record to internal memory but rather transmit video signals so that they can be recorded and viewed elsewhere. Military wrist display. A special-ops soldier carries a slew of gadgets into battle. There's the GPS unit to pinpoint his squad's location, and a laptop for pulling up blueprints of terrorist compounds or infrared readings of buildings scoped out by robotic surveillance drones. With the radio and its five-pound battery, it's too much gear. But in a couple of years, troops could lighten their load with a rugged, flexible, wrist-mounted display that's in development by the U.S. Army and HP Labs.

For entertainment purposes, the famous **ECHO DOT** and **iWatch**. iWatch works on the display activates when you raise your wrist. You will initially see your chosen watch face, but if you press the Digital Crown, it will bring up the home screen, where you can get to all your apps. Apps now appear as clusters of simple, circular icons that you can arrange however you like. The Echo dot works You can use voice commands on an Amazon Echo Dot through an Alexa. The **TOASTER** Works Electrical energy flows into the toaster from a wire plugged into the domestic electricity supply. ... The filaments are so thin that they glow red hot when the electricity flows through them. Like a series of small radiators, the filaments beam heat toward the bread in the toaster. Electrical energy flows into the toaster from a wire plugged into the domestic electricity supply. ... The filaments are so thin that they glow red hot when the electricity flows through them. Like a series of small radiators, the filaments beam heat toward the bread in the toaster.

The 21-century robots .. **HUMANOID ROBOT** works on the Actuators which are the motors responsible for motion in the robot. Humanoid robots are constructed in such a way that they mimic the human body, so they use actuators that perform like muscles and joints, though with a different structure. ... Pneumatic actuators operate based on gas compressibility. In this way the whole man is dependent on the machine ... but we don't have to be a slave to it and do all work effectively.

**Helly Patel &  
Khushi Valand**

BSc

## My experience on Music

Music certainly affects our lives and personality in some ways. Music is an art of experiencing our life in a different way. Every person in this world has some kind of hobby and many of them love to listen music.

There are two main reasons why a person listens to music: one if he is depressed or sad and the second to purge his inner emotion of feelings.

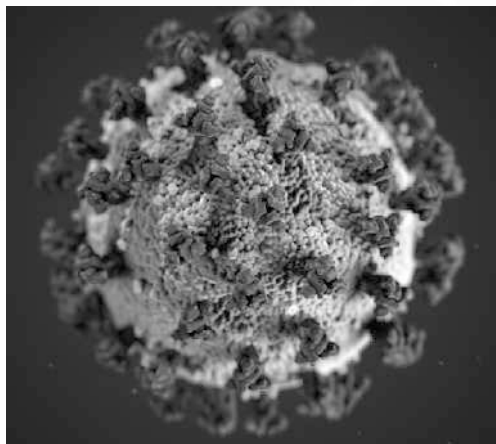
A person's favourite music can tell about his character more than his behaviour. Music holds a great potential to boost the feelings or emotions of a person. Sometimes listening to positive genre of music can improve a mood from sad to happy. But many people listen to music depending upon the situation. If one has a low mood he will try to listen to calm and sad songs.

Music is a very powerful tool if it is listened in a positive manner. Some loud songs can disturb our mind. So, we should listen only to calm and steady music !!.

**Prajapati Santoshkumar G.**

FY BSc

## The Covid-19 Pandemic



The covid-19 pandemic in India is part of the worldwide pandemic of coronavirus disease 2019 (covid-19) caused by severe acute respiratory syndrome coronavirus 2 (SARS-COV-2). This virus affects our respiratory system. On 11th February 2020 WHO gives the name 'covid-19'. This virus is found out in 'BAT' so it is believed that this virus spread from 'BAT' to humans. It is more dangerous in humans as it moves from person to person. Symptom of the virus include colds, cough, fever, headache, and problem to take a breath. This virus originates from Wuhan city in China and then spread all over the world. World's all most 220 countries is affected with covid-19. In March 2020 which declared covid-19 is a 'pandemic'.

The first case of covid-19 in India was detected in Kerala on 27th January 2020 and then spread all over India. The Government of India announced a Lockdown in the country to control covid-19. Lockdown was announced by our hon'ble Prime Minister Narendra Modi for 3 weeks from 24th March 2020. Considering the increasing cases, the lockdown was done in 4 stages.

Lockdown slowed Indian economic growth led to a sharp drop in government revenue and a sharp fall in the stock market, which hit the Indian economy hard and reduced India's GDP by about - 23%. In this duration, many people and NGOs worked to feed the poor people. People were confined in their own homes which was also necessary. This impacted to 'Work from home' and 'E-Learning'. The police strictly adhere to lockdown from people and provide proper guidance to the people. 'Vande Bharat Mission' was started to bring back stranded Indians from the foreign destination after the suspension of regular international flights. India gave the Indian vaccine to many countries like Bangladesh, Sri Lanka, Bhutan, and Nepal as a gift which showed India's friendship with other countries in times of crisis.

As time went new Corona cases began to decrease so the lockdown was gradually lifted. People started living life again with the covid guidelines, but due to some negligence of the people and changing the form of the virus came to the second wave of Corona in this second wave patient having more trouble breathing, which require a very large amount of oxygen. This second wave was more dangerous as compared to the first wave. It is predicted that there will be a third wave of this corona, but it will not be so

dangerous.

India has reported the highest covid cases in the world during the second wave. At least one out of every three new cases around the world have been reported in India. In April 2021 daily average of 300000 to 350000 new Covid patients and daily, more than 3000 death were confirmed. This figure is growing exponentially. The pick of the cases in the second wave is likely to come in May-June 2021. Many countries including U.S.A, U.K, Kuwait, France, and Canada have banned flights from India, while many have issued a travel



@The Hindu



advisory to all passengers flying in and out of India.

Most of the hospitals are full of Corona patients. New patients do not get a bed in the hospital. There is a long line of the ambulance in front of the hospital. People are dying outside the hospital. There is a shortage of drugs like remdesivir and oxygen to treat patients. People are dying of oxygen deprivation. Doctors are treating patients at the risk of their own lives many of whom have lost their lives in the line of Duty. There are long queues of four funerals in the front of the cemetery, whose heart-punching picture was published on the front page by the world's great newspaper 'The New York



@Mint Business News



@Tribune News Service

Times. The Indian government approved to use of 'PM CARES FUND' to set up 551 new oxygen generators across the country special trains carrying oxygen have been sent to shortage hit Cities. The government increasing beds in



@India Today



@ Business Standard

hospitals. The Indian Army was also serving in their camp and their doctors. Indian Army's many special types of equipment was also given to the hospital.

During the second wave of Corona countries around the world are coming forward to help India's need for oxygen concentrator, drug, vaccine and other medical supplies. U.S.A, Russia, France, U.K, Australia and other countries including U.A.E are helping India to supply essential oxygen, Pharmaceutical drugs and other medical supplies.

During India's second wave, some of its State governments have announced lockdown in more infected places. Maharashtra, Delhi, Karnataka and Uttar Pradesh have declared lockdown across their entire state and some States have taken decisions such as night curfew to prevent the coronavirus transition. Rating agency standard and poor's (S&P) warns the second wave of Corona will hit India's economic recovery and significantly reduced GDP.



Vaccines have been announced for citizens over the age of 18 in India. India launched a vaccination program on 16 January 2021. India is now the fastest country in the world to cross the 14 crore Covid-19 vaccines.

Two vaccines were approved at the beginning of the vaccination program in India including one is 'COVISHIELD' manufactured by serum Institute and another is 'COVAXIN' manufactured by Bharat Biotech. On 12 April 2021, the Russian-made 'SPUTNIK V' was approved as the third vaccine in

India. Many Leaders, Artist and Actors including our Prime Minister have got vaccinated and appealed to the people to get vaccinated.

India is facing a very difficult situation during the second wave of the corona. Many countries of the world are trying to get out of this situation. To recover from this pandemic, People must follow the protocols of frequent hand washing, use sanitizer, wear a mask and keep social distance. People must get vaccinated and inspire others. This is the only way to defeat Corona.

**Prashant R. Helaiya**

FY BSc

## **Virtual Labs**

Virtual labs are simulated learning environments that allow students to perform online laboratory experiments and explore the concept and theories without stepping in to a physical lab. Those students who have done the practical in the laboratory can understand concepts more clearly.

Virtual labs is a project initiated by Ministry of Human Resource Development (MHRD), Government of India, under the National Mission on Education through Information and Communication and Technology. The project aims to provide remote-access the laboratories in various disciplines of science and engineering for students at all levels from undergraduate to postgraduate and up to research. Eight IITs. (Delhi, Bombay, Kanpur, Kharagpur, Madras, Roorkee, Guwhati, and Hydreabad), Amrita University, Dayalgadh University, NIT, Karnataka and College of Engineering, Pune were the institutes participated in the project. The project covers Computer Science Engineering, Electronics and Communication Engineering, Electrical Engineering, Mechanical Engineering, Chemical Engineering, Biotechnology and Biomedical Engineering, Civil Engineering, Physical Science and Chemical Science.

If any one is interested in performing virtual experiments they can search for "Virtual labs MHRD".

**Prof. P. A. Lashkari &**

**Prof. B. H. Lashkari**

(Electronics Dept.)

## Hypersonic Technology Demonstrator Vehicle

### Why in News

Recently, the Defence Research and Development Organisation (DRDO) successfully flight tested the Hypersonic Technology Demonstrator Vehicle (HSTDV).

### Key Points

- About: HSTDV is an unmanned scramjet demonstration aircraft that can travel at hypersonic speed.
- It uses hypersonic air-breathing scramjet technology.
- The vehicle traveled its desired flight path at a velocity of six times the speed of sound i.e., Mach 6.
  - Mach number: It describes an aircraft's speed compared with the speed of sound in air, with Mach 1 equating to the speed of sound i.e., 343 meters per second
- Conducted at: The test was conducted from Dr. APJ Abdul Kalam Launch Complex at APJ Abdul Kalam island off the coast of Odisha.
- Implications: India became the fourth country to have demonstrated this technology after the USA, Russia, and China.
  - China successfully tested its first wave rider hypersonic flight vehicle in 2018.

### Air Breathing Engine

- Air-breathing engines use oxygen from the atmosphere in the combustion of fuel. They include the turbojet, turboprop, ramjet, and pulse-jet.
- This system is lighter, efficient, and cost-effective than other systems in use.
- Worldwide efforts are on to develop the technology for air-breathing engines for satellite launch vehicles.
  - Presently, satellites are launched into orbit by multi-staged satellite launch vehicles that can be used only once (expendable). These launch vehicles carry an oxidizer along with the fuel for combustion to produce thrust.
  - A propulsion system that can utilize the atmospheric oxygen during their flight will considerably reduce the total propellant required to place a satellite in orbit.

- If those vehicles are made reusable, the cost of launching satellites will further come down significantly.
- Types of Air Breathing engines
- Ramjet: A ramjet is a form of air-breathing jet engine that uses the vehicle's forward motion to compress incoming air for combustion without a rotating compressor.
  - Ramjets work most efficiently at supersonic speeds but they are not efficient at hypersonic speeds.
- Scramjet: A scramjet engine is an improvement over the ramjet engine as it efficiently operates at hypersonic speeds and allows supersonic combustion.
- Dual Mode Ramjet (DMRJ): A dual-mode ramjet (DMRJ) is a type of jet engine where a ramjet transforms into a scramjet over Mach 4-8 range, which means it can efficiently operate both in subsonic and supersonic combustion modes.

Speed Range	Mach Number	Velocity in m/s
Subsonic	< 0.8	< 274
Transonic	0.8–1.2	274–412
Supersonic	1.2–5	412–1715
Hypersonic	5–10	1715–3430
High-hypersonic	10–25	3430–8507

## Advantages:

- The indigenous development of the technology will boost the development of the systems built with hypersonic vehicles at its core.
- It can be developed as a carrier vehicle for long-range cruise missiles in the defense sector. This includes both offensive and defensive hypersonic cruise missile systems,
  - Due to its high speed, most RADARs will be unable to detect it. It will also be able to penetrate most missile defense systems.
- This technology will be helpful in the space sector in the development of low-cost, high-efficiency reusable satellites.

## Disadvantages

- Very high cost.

## Background

- The DRDO started on the development of the HSTDV engine in the early 2010s.
- The Indian Space Research Organisation (ISRO) has also worked on the development of the technology and successfully tested a system in 2016.
- DRDO conducted a test of this system in June 2019 also.

## Way Forward

- The successful demonstration is certainly a significant milestone towards Atmanirbhar Bharat. DRDO with this mission has demonstrated capabilities for highly complex technology that will serve as the building block for NextGen Hypersonic vehicles in partnership with industries.
- While the successful test is a major milestone, many more rounds of tests will have to be done to achieve the level of technology with countries like the US, Russia, and China.



**Tripathi Hardik**

SY BSc (Physics)

*"Your work is going to fill a large part of your life, and the only way to be truly satisfied is to do what you believe is great work. And the only way to do great work is to love what you do. If you haven't found it yet, keep looking. Don't settle. As with all matters of the heart, you'll know when you find it."*

*- Steve Jobs*

## Project Dolphin

### Why in News



- The Prime Minister announced the **government's plan to launch a Project Dolphin** in his recent Independence Day Speech (15th August 2020).
- The proposed project is aimed at **saving both river and marine dolphins**.

### Key Points

- Project Dolphin will be **on the lines of** Project Tiger, which has helped increase the tiger population.
- The project **got in principle approval** in December 2019, at the first meeting of the National Ganga Council (NGC), headed by the Prime Minister.
- It is expected to be implemented by the **Ministry of Environment, Forest, and Climate Change**.
- Special Conservation program needs to be taken up for Gangetic Dolphin which is a **national aquatic animal** and also **indicator species** for the river Ganga spread over several states. As the Gangetic dolphin is at the top of the food chain, protecting the species and its habitat will ensure the conservation of the aquatic lives of the river.
- So far, the National Mission for Clean Ganga (NMCG), which implements the government's flagship scheme **Namami Gange**, has been taking some initiatives for saving dolphins.
- **Global Experience:** The **Rhine Action Plan (1987)** of the **International Commission for the Protection of the Rhine (ICPR)** — representing **Switzerland, France, Germany, Luxemburg, and the Netherlands** — helped in the conservation of the salmon fish (also an indicator species).

### Gangetic Dolphin

**Scientific Name:** Platanista gangetica

- **Features:**
  - These are generally **blind** and uniquely catch their prey. They emit an **ultrasonic sound** that reaches the prey.
  - These are also called susu.
- **Location:**
  - It is found **mainly in the Indian subcontinent**, particularly in **Ganga-**

**Brahmaputra-Meghna and Karnaphuli-Sangu** river systems.

- It is also found in the Ganga's tributaries.

- **Threats:**

- **Dams** disturb the migration, breeding cycles, and **habitat** of fish and other prey.
- **Pollution.**
- Excessive silting and sand mining especially in Assam and the lower course of the Ganga.

- **Population:**

- The Gangetic dolphin census suggests that the Gangetic dolphin population in India could be about **2,500-3,000**.
- As per the Ministry of State for Environment, Forest, and Climate Change there are about **1,272 dolphins in Uttar Pradesh** and **962 in Assam**.

- **Status of Conservation:**

- In the First Schedule of the Indian Wildlife (Protection), Act 1972.
- Endangered by the International Union for the Conservation of Nature (IUCN).
- **Appendix I** (most endangered) of the Convention on International Trade in Endangered Species (CITES).
- **Appendix II** (migratory species that need conservation and management or would significantly benefit from international co-operation) of the Convention on Migratory Species (CMS).

- **Conservation Efforts:**

- **Wildlife Protection Act:** In 1986 after the launch of the Ganga Action Plan in 1985, the government included Gangetic dolphins in the **First Schedule of the Indian Wildlife (Protection) Act 1972**.
- It means they have the highest degree of protection against hunting.
- This was aimed at checking hunting and providing conservation facilities such as wildlife sanctuaries.
- For instance, **Vikramshila Ganges Dolphin Sanctuary** was established in Bihar under this Act.
- **Conservation Plan:** The Conservation Action Plan for the Ganges River Dolphin 2010-2020, which "identified threats to Gangetic Dolphins and impact of river traffic, irrigation canals and depletion of prey-base on Dolphins populations".
- The **National Ganga River Basin Authority** (replaced by National Ganga

Council) in 2009 and constituted a Working Group under the Patna University to prepare a Conservation Action Plan for the Gangetic Dolphin in 2009.

- **National Aquatic Animal:** In 2009, during the 1st meeting of the National Ganga River Basin Authority, the Gangetic river dolphin was declared as the national aquatic animal.
- The National Mission for Clean Ganga celebrates **5th October as National Ganga River Dolphin Day.**

**Tripathi Hardik**

SY BSc (Physics)

## **REPORT OF VPM IAS STUDY CLUB [Coaching for Entry Level Services] YEAR: (2020-2021)**

The college runs the VPM IAS Study Club to prepare students for entry-level services conducted by UPSC, GPSC, IBPS, SSC & OTHER COMPETITIVE EXAMS. The club aware the student of our college to aware of such types of examinations after their graduation. The club organizes lecturers for guidance on different competitive exams and conducts periodic tests of subjects for various competitive exams.

**Orientation Programme:** An orientation program was organized on 1st March 2021 by the club to provide information and guidance on the competitive examinations after graduation. Mr. Brijeshbhai Patel, the faculty of SPIPA delivered the Lecture.

**Study Materials:** The club provided E-Newspaper and Study materials for the preparation of the examinations in Soft and Hard format.

**Various MCQ (QUIZ) Tests:** The club organized various activities for the preparation of competitive examinations after graduation. Due to more weightage on the General Studies in UPSC examinations, the club organized Online Quiz Test on different themes like General Science, Current Affairs, Polity, Geography, History, etc.

**Essay/Article Writing Competition:** To increase the writing skills of the aspirants, we conducted a writing competition on various topics as a part of the preparation for the competitive examinations.

**Ms. Priya Vyas**  
Students Coordinator

**Dr. A. R. Jivani**  
Coordinator

## **Vaccines : Warriors against Pandemic**

Generally, In layman's language 'vaccines' are known to be the medications against infections. Many scientific and non-scientific discussions take place on vaccines in society.

We all know that right from childbirth vaccines are injected to children at different ages to prevent a child from various infectious diseases. But in the 21st century there are still many rural areas all over world where people are not aware of the importance of vaccines.

### **What is Vaccine ?**

Vaccine are biological preparations which typically contains an agent that resembles a disease causing microorganisms and is often made from weakened or killed forms of the microbe, its toxins, or one of its surface proteins. It activates our immune system without making us sick. The word vaccination has been derived from Latin word 'Vacca' which means cow. This is because cow pox virus was used against the infection caused by small pox virus. In 1796, British Dr. Edward Jenner first discovered small pox vaccine against contagious disease. Small pox was widely spread during those times and could cause epidemics.

### **Herd Immunity :**

When the majority of the population has been vaccinated against a disease, there will be few people left to whom the infection can spread. This protects the few who have not been vaccinated. With the help of this concept, it is possible to totally eradicate some diseases worldwide. So far this have been achieved for small pox.

The world health organization (WHO) estimates that immunisation saves the lives of 2.5 million people annually and protects millions more from child mortality, birth defects and lifelong disabilities. The world is today closer than ever to eradicating polio. Measles and rubella have been eliminated from the America and maternal and neonatal tetanus has been eradicated in Southeast Asia. India protected children against 10 various vaccine-preventable diseases like diphtheria, pertussis, tetanus, polio, measles, rubella, severe form of childhood tuberculosis, rotavirus diarrhoea, hepatitis-B and meningitis and pneumonia (caused by hemophilus influenza type B) at the national level, and against two diseases at the sub-national level: Pneumococcal Pneumonia and Japanese Encephalitis. This was achieved through programme 'Mission Indradhanush'.

## Vaccine related to Covid-19 :

"Covaxin," India's indigenous covid-19 vaccine developed by Bharat Biotech in collaboration with the Indian Council of Medical Research (ICMR) - National Institute of Virology (NIV).

The indigenous inactivated vaccine is developed and manufactured in Bharat Biotech's BSL-3 (Bio-Safety Level 3) high containment facility. The vaccine is developed using Whole-Virion Inactivated Vero Cell derived platform technology. Inactivated vaccines do not replicate and are therefore unlikely to revert and cause pathological effects.

## Why develop Inactivated Vaccine?

Conventionally, inactivated vaccines have been around for decades. Numerous vaccines for diseases such as Seasonal influenza, Polio, Pertussis, Rabies, and Japanese Encephalitis use the same technology to develop inactivated vaccines with a safe track record of >300 million doses of supplies to date. It is the well established and time-tested platform in the world of vaccine technology.

*"Thus vaccines are the warriors against epidemics and various death causing disease. Vaccine are the path of new life to everyone in world".*

**Vyas Dhvani**

SY BSc (Microbiology)



**"Life is like riding a bicycle. To keep your balance you must keep moving."**

*Albert Einstein*

QuotesCosmos

## Maths in our Day to Day Life

We are aware that in our daily life, maths is connected in different ways. We can find Mathematics from the calculation on the finger tips to the operation of the computers. We don't know when Mathematics be fun, but is a part of your daily life.

Mathematicians like Aryabhata, Srinivasa Ramanujan. Bhaskara, John Wilson, Euclid, Pythagorus, Archimedes etc. who have made the subject of Mathematics so well-known. They have given a lot of theories to show that how Mathematics connects with our daily life.

There are lots of theories, concepts, operations of Mathematics that make the subject beautiful and interesting. If we consider Mathematics as a flower then its method, its theories are like the petals of a flowers. There are many branches of Mathematics. They are as under :

**Calculus:** An architect uses calculus to calculate the materials required to construct curved structures such as domes and arches. Electrical Engineers use it to calculate the length of power cables between places that use miles apart.

Biologists use it to calculate the rate of growth in microbes.

In Physics it is used to find the center of mass, center of gravity etc...

**Algebra:** Study of genes and DNA can be better explained in terms of eracitions. Their properties can be easily deduced with the help of X and Y chromosomes. In Economics X and Y are used to determine the supply and demand of goods.

In computer graphics (CG) X and Y are used as coordinates to design objects and their movements.

**Matrix :** Matrix is used in Robotics.

**Trigonometry:** Trigonometric angles are used in the construction of marinl ramps. These are used to spot a location for navigation.

**Mensuration :** In home design for wall colouring architects used this branch.

So, these are a few examples of branches of Mathematics and its applications in our day to day life.

**Maheshwari Rachna**

B Sc (Maths)

## Artificial Intelligence

Artificial intelligence is a wide-ranging branch of computer science concerned with building smart machines capable of performing tasks that typically require human intelligence. AI is an interdisciplinary science with multiple approaches.

The traditional problems (or goals) of AI research include REASONING, KNOWLEDGE REPRESENTATION, PLANNING, LEARNING, and the ability to move and manipulate objects.

### Artificial Intelligence applications in use

The use of Artificial Intelligence in applications is growing gradually.

#### AI in business:

Robotic process automation is used and applied in highly repetitive tasks which are usually performed by humans. It is used to serve customers and give better service. Automation of job positions is now a talking point in academia and IT consultancies too.

#### Use of AI in education:

In the work of grading, calculating marks is charged up by the use of AI. It can drive efficiency. It can follow the admin's task. With the help of AI, a teacher can handle 50 students at a time.

#### 21st Century-era of AI:

Artificial Intelligence has made life easier. It helps in :

#### Speech recognition:

Siri is an apt example of AI, Siri is the application made by Apple that recognizes your speech and guides you just like Alexa made by Amazon.

#### Biometrics:

This technology can measure and identify human behavior and physical aspects of body structure and form. It allows interaction between human beings and machines related to touch, speech, body language, etc.

#### Automatic Robotic process:

It is used when hiring humans is too expensive or inefficient. It mimics and automates human tests to support the corporate process. AI Technology has made life easier like this.

#### Use of AI in AMAZON

From using AI to predict the number of customers willing to buy a new

product to running a cashier-less grocery store, Amazon's AI capabilities are designed to provide customized recommendations to its customers. Amazon used its AI to identify the best matches depending on the context of use.

## AI gave Stephen Hawking a voice

“As most of you may know, I am on record as saying that I believe there is no real difference between what can be achieved by a biological brain and what can be achieved by a computer.”-Stephen Hawking.

Dr. Hawking used assistive technology to compensate for mobility and speech difficulties. He used a thumb switch and a blink switch attached to his glasses to control his computer. By squeezing his cheek muscles and "blinking" an infra-red switch was activated and he was able to scan and select characters on the screen to compose speeches, surf the Internet, send e-mail, and "speak" through a voice synthesizer

## Shah Dhruvi

FY BSc

### તરસ....

જીંદગીની ભાગદોડમાં બધું અધૂરું રહી ગયું.  
ના પહેલા ના પછી બધું વચ્ચે રહી ગયું.  
સમય સાથેની સ્પર્ધામાં બાળપણ અધૂરું રહી ગયું  
હૃદયના ટુકડાને મોટા થતાં જોવાનું દૃશ્ય અધૂરું રહી ગયું.  
માવતરની પ્રેમ વર્ષામાં ભીંજવાનું અધૂરું રહી ગયું.  
જવાબદારીના બોજમાં લાડ લડવાનું અધૂરું રહી ગયું.  
નકામા સાથીઓની મહેફીલ માણવાનું અધૂરું રહી ગયું.  
શ્રેષ્ઠ અને ઉત્તમની સ્પર્ધામાં શીખવાનું અધૂરું રહી ગયું.  
ભૂતકાળના અફસોસમાં વર્તમાનને ગળે લગાવવાનું અધૂરું રહી ગયું.  
ગુસ્સા અને જીદમાં સંબંધ સાચવવાનું અધૂરું રહી ગયું.  
ના પહેલા ના પછી બધું વચ્ચે રહી ગયું.  
જીંદગીની ભાગદોડમાં બધું અધૂરું રહી ગયું.

માનસી ડી. બલવા  
એફ.વાય.બી.એસ.સી.

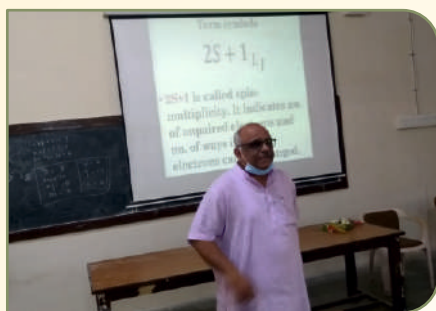
# National Cadet Corps (NCC) - 2020-21



# Sports Club Activities 2020-2021



# Departmental Activities 2020-21



## Chemistry Department



## Compu-Carnival 2021



## Physics Department

## *Other Activities 2020-21*



### *Class Wise Orientation*



### *Library Orientation*

## **E-LEARNING AND FUTURE EDUCATION**

E-Learning System is based on formalized teaching methods but with the help of electronic resources is known as E-Learning. It is available everywhere and can be used anytime. A short definition of E-Learning can't represent the multiple uses of E-Learning in the modern era. As Technology advances it has gradually transformed the methods, resources, outputs, in particular fields. E-Learning is the most common mode of education. It has become a source of information for students, teachers, working CEOs, Companies, etc

Firstly E-Learning is very interactive as it offers a platform where people across could discuss an issue. It provides growth, as it is frequently used by schools in the Corona pandemic, students have turned to various online classes which provide Live interactions, visual images, animations, etc. and some learning games which also enhance mental development.

E-learning helps teachers by making new lessons as well as maintaining an online grade book. It provides convenient access to technology which allows all to increase technology skills. It is Scalable, Capacity Containing, Consistent, Retention providing, Time saving, flexible, reduces the Carbon footprint as many books or E-videos can be uploaded so that it causes carbon usage reduction as it would save from Book printing. "Every coin has two sides". There are certain Merits and Demerits of E-Learning.

E-Learning gadgets are sometimes costly for ex..Laptop, Hard drive, Headphones, etc. Due to the unaffordable price, many of the people living in rural people can't enjoy the advantage of E-Learning. Poor connection issues can make E-Learning ineffective and boring too. Many times poor server connections are noted. In the current Corona Pandemic situation, the schools and colleges had arranged the online examinations. Due to this the chances of cheating and destroying the norms of appearing in exam have been observed which can mark good results to undeserving students also. In E-Learning, many students and teachers come up to interact, but Personal attention can't be provided as more than 30 students join in a single meeting, It can bore up the method of conveying information and learning new things as a student can't interact continuously. The students become careless about attending lectures as no one is supervising.

**Vahora Saniya &**

**Vahora Zeba**

FY BSc

## **Vaccine Diplomacy**

The year '2020' was all about coronavirus and the death of millions of innocent people because of this virus. Countries like United States, India, Brazil, Italy, Spain etc. are the worst affected countries in terms of infection.

During the end of 2020, Many companies like pFizer, moderna, Astrazeneca, Bharat Biotech etc had successfully developed vaccines with varying degree of effectiveness and side effects. But it wasn't an easy task to develop vaccine and to produce then. These companies need the funds from government for manufacturing and production of doses of vaccine on a large scale.

Many powerful and developed countries like United States, Israel, United Arab Emirates, Canada, Australia, Britain (or United Kingdom), EU members have paid most (gives more funds) to the companies to get most doses of vaccine as earlier as possible (Despite their requirement). As a result of this, competition to get vaccine, the doses of vaccine are unequally distributed among richer countries. The poor and developing countries finds difficult to get vaccine and to vaccinate their people. Because of these competition, the people who really need the vaccine are not getting even single dose.

On the other hand, India has so far supplied Oxford-Astrazeneca's vaccine manufactured in India to countries like Morocco, Saudi Arabia, Brazil, South Africa, Dominican republic, Bhutan, Maldives, Bangladesh, Nepal, Myanmar, Sri Lanka, Cambodia, Caricom countries, Afghanistan etc. Even India had donated (or gifted) some doses of vaccine to its neighbouring countries. India had donated (or gifted) some doses of vaccine to UN peacemakers.

In order to distribute doses of vaccine among poor countries or other developing countries equally, an program called Covax under UN and GAVI has been started under which Ghana and Ivory Coast become first and second country to get vaccine at a low price. But this is not enough to help poor countries or countries which do not have good medicinal infrastructure and system.

At last, the world will remember that how globally powerful, developed and rich in economy countries had taken over the basic necessity.

**Parekh Deep**

FY BSc (Div. A)

## Best for an Individual is not Necessarily best for Society

Today, living is very hard for those people who are sensitive, emotional, because we know that everyone lives for themselves. We can see that no one lives for society.

We know that the people around us are a live only for themselves. We can say that it is not good to be selfish but we are seeing around us that each and everyone is selfish. We see that the neighbours are enjoying their lives but they are not thinking about disturbance created in the life of others.

There are many things which are good for others but it is unnecessary for the society. Some people including the activities have been banned by Government but there are some people who live in society and they don't take care of society. Their only motive is profit and don't care about effects on the society.

When we talk about the best things for individual we can also talk about the mindset of people. Each and every person has their personal view on something. But we see that some activities are good for one people but that activity also has bad impact on society. So we can say that one thing is good for one person but it is not necessary that those things are good for everyone.

I want to tell everyone that one must not see the things from one's personal view only but also try to see something from the others' point of view. May be it will be bad, but at least you can try to understand the thing properly.

When we are talking about the best for individual we don't want to forget about media influence because as we have seen the reporters can do anything for their channels publicity but they don't think that we should see the government where their policy works not rich. They should try to focus on areas of government. So, they can solve the problems and the public can benefit.

**Vyas Priya D.**

TY BSc (Chemistry)

*"If you want to live a happy life, tie it to a goal, not to people or things."*

*– Albert Einstein*

## **Life is Challenging**

It's 2021, exactly an year after I completed my schooling. At last,!! and now I feel I am atleast free from the will which I have been since last two years. I completed by 10th standard from Hanifa School in English Medium. I have cultivated many memories, skills and also build up my own identity. Until my 10th, I never faced any problems in my school life. I am not a communist but however the circumstances had made me to believe that still there are discriminations, lack of opportunities too. This started when I had to change my school for my higher studies in science stream. Firstly, I was exited and eagerly waiting because I thought I might get better environment, new friends, new culture. But It wasn't easy.

I remember my first day of school in 11th std. As it was a non-muslim school, I was really scared and worried. Just one thought made me so uncomfortable which was would I be avoided by everyone just because of clothing. !! No ! It wasn't a thought but a real routine experience when I went to the bus-stop and I stepped inside the bus, not even a single girl/boy offered a seat. I was really blank, frustrated and moreover surprised seeing that still the students who get education are not really knowing the real meaning of it ! This was the beginning part the rest every moment I have suffered since 2 years. Girls in my classroom used to just criticize me, backbite or rather make fun of me. This was okay, I understand that I won't ever get mixed but the most difficult part of my school life was when I saw even the teachers follow the tradition of partiality. When I suffered I used to try to sit alone in class during recess time. I started being over friendly, over helpful, over sweet but nothing changed. And, this was just a single side the most cruel thing happened in my 12th standard the most important year of my life. I had so many dreams. In 12th all this weird experience had disturbed me so much that I started going in depression which my mom also knew as she always used to find me crying when I returned home, was it really my fault ?!! that I belong to a non-hindu community. Aren't we living in a secular country ?? Changing school was very difficult. I used to get up in midnight and start crying. I knocked the door of my parents room and was crying aloud. I was sitting in the lap of my parents. But thankfully, I had got their support. On that night my Dad told me, just stay free even if you clear your exams it would be enough.

Rather I gave up and started focussing on myself. I left everything to god and believed. This attitude can now make me comfortable everywhere I can deal with everyone, irrespective of what they feel about me.

**Vahora Saniya Y.**

FY BSc

## Positive Attitude

Positive attitude is the result of positive thinking, positive ideas and coming with new solution. The way you think, day is and day out, affects all aspects of your life. Learning to listen to your 'internal voice' will help you recognize your thought patterns and also teach that how we handle our stressful situation of daily living.

Many people have found that, when they tune into their internal voice, much of it is negative thoughts like, "I could never do that" and "what if I fail"? can seriously impact the way you behave.

Develop your positive attitude ! Here are some ways to help you develop a more positive attitude: listen to internal voice. Divide one or more sheets of paper into two columns. For a few days, write down in the left column all the negative thoughts that come into your mind. Rewrite each thoughts in a positive way in the second column. Practise doing this in your mind until it becomes a habit.

For e.g.: "I'll never get this finished by the end of the day !" could become, "I'll probably get most of this finished by the end of the day !"

Learn to communicate. Not saying the things we feel can lead to sense of frustration, hurt, anger or anxiety. If you find communicating difficult or are afraid of arguments then without any waste of time, learn from the following Mountain Story.

**Mountain Story - An interesting short story.** A son and his father were walking on the mountains. Suddenly, his son falls, hurts himself and screams AAAHHHHH !!!

To his Surprise, he hears the voice repeating, Somewhere in the mountain.

Curious, he yells "Who are you ?"

He receives the answer: "Who are you ?"

And then he screams to the mountain: "I admire you !"

The voice answer "I admire you !"

Angered at the response, he screams; "Coward !"

He receives the answer: "Coward !"

He looks to his father and asks: "What's going on ?"

The father smiles and says: "You are a champion !"

The boy is surprised, but does not understand.

Then the father explains: "People call this ECHO, but really this is life.

It gives you back everything you say or do.

Our life is simply a reflection of our actions.

If you want more love in the world, create more love in your heart.

If you want more Competence in your team, improve your competence.

This relationship applies to everything, in all aspects of life; Life will give you back everything, in all aspects of life; Life will give you back everything you have given to it."

"Your life is not a coincidence. It's a reflection of you !"

Attitude Is everything

"Keep your thoughts positive because your thoughts become your words. Keep your words positive because your word become your behaviour. Keep your behaviour positive because your behaviour becomes your habits. Keep your habits positive because your habits become your values. Keep your values positive because your values become your destiny".

**Patel Vrutanshi**

SY BSc (Chemistry)

## માણસ ભૂલ્યો...

ગણિત, વિજ્ઞાન, અંગ્રેજીની દુનિયામાં માણસ મૂંઝાયો ભણવામાં  
પણ ઈશ્વરને યાદ રાખવાનું તો ભૂલી જ ગયો તું દિનમાં  
ન્યુટનના નિયમો સાબિત કરવામાં  
માણસ મૂંઝાયો વિજ્ઞાનના પ્રયોગમાં  
પણ ઈશ્વરને યાદ રાખવાના નિયમો તો ભૂલી જ ગયો તું દિનમાં  
પાયથાગોરસ પ્રમેય સાબિત કરવામાં  
માણસ મૂંઝાયો ગણિતના ફોર્મ્યુલામાં  
પણ ઈશ્વરને યાદ રાખવાના પ્રમેયો તો ભૂલી જ ગયો તું દિનમાં  
અંગ્રેજીની એબીસીડી ગોખવામાં  
માણસ મૂંઝાયો ચોપડામાં  
પણ ઈશ્વરને યાદ રાખવાની એબીસીડી તો ભૂલી જ ગયો તું દિનમાં

શ્રેયા કામલિયા

ટી.વાય.બી.એસસી. (ભૌતિકશાસ્ત્ર)

## Youth and Politics

Youth An instrument of change

Firstly, we know that political spectrum is always with the politicians having exceeded their retirement age.

So the question arises that why we need youth in politics ? In this regard, we the youth of country should be in politics who are actually capable and can bring some changes, these politicians who even know the realities but don't care for development. The one who doesn't know all the aspects, still rule the nation and makes decision for us.

Then how such politicians having no retirement age can rule us ?

So by analytical data, we know that in country 65% of population is under 40 age is ruled by politicians having age of 60 or above.

Today, India is a young democracy and all this young mind has stretched their limits to make the country more developed. These aspirants have mind with passion, minds with new ideas to serve their country. Students/Youth of country should cultivate a sense of discipline towards their country. Which is one of the first essential requisites of the democracy.

Participation in politics makes a student aware of what is happening in country/world. It always develops the leadership qualities in Youth. It trains youth to be a good citizen. He grows into a responsible and cultured citizen who is an asset to the nation. It creates a sense of patriotism in him. He can have a fair knowledge of world. He develops debating skills and he can also put forward his their point of view.

Student life is the formative period of one's life. A student must develop all such qualities in him during this period to enable him to lead a successful life.

In conclusion we can say that student should take part in politics. All activities are good if one remains with reasonable limits. Students should primarily be involved in their studies and be aware of what is happening around him. One should be prepared to join politics. He or she is convinced about what they want to do-not for power but to serve the country.

**Vanparia Sakshi P.**

FY BSc (Div. A)

*"Smell the sea and feel the sky, Let your soul and spirit fly."*  
– Van Morrison

## Importance of a role model in our life

*Men often become what they believe themselves to be. If I believe I cannot do something, it makes me incapable of doing it. But when I believe I can, then I acquire the ability to do it even if I didn't have it in the beginning".– Mahatma Gandhi*

My role model is Dr. APJ Abdul Kalam. In his book '**Ignited Minds**', he had written "Whatever you do must come from the heart. Express your spirit and there, you will also spread love and joy around you". For you it could be someone else whom you admire - a sports person, a teacher or a successful entrepreneur.

Till the age of fifteen, the best role models I could think of were our father, our mother and our school teacher. It is very important for every parent to be willing to make the efforts to guide children to be a good human being. The teacher - the child's window to learning and knowledge has to play the role model in generating creativity in the child.

The best role models reflect honesty and productivity on our own behaviour and the impact we have on others. A role model in your life is always a good idea to inspire yourself to achieve the zenith of success. Having a role model in life can help you improve your life and the attitude towards it.

Emulating a person's actions and values will serve as a guiding light for you when you have bigger goals to achieve in life. Generally we choose our role models according to our dreams and our passion.

*"Dream, dream, dream..Dreams transform into thoughts and thoughts result in action"– Dr. APJ Abdul Kalam*

It is very important to choose the right role models in our life because at some extent it contributes to our success.

Last but not the least, Choose your role models wisely. Role models can help us focus on what is correct for us as individuals, as groups and, of course, as a nation.

**Shah Dhruviben**

FY BSc (Div. E)

## **My Unforgettable College Years**

17 June 2018, the first day of my college. I stepped into the campus full of excitement, eagerness, etc. With all positive vibes. But in mind there was a great wall of nervousness and fear in the mind.

The day started with an orientation program in which we were introduced to the college. Even the past students were also invited for sharing their experiences of the college. After the program got over we had to do some paper work and that was the end of my first day in the college.

Next day in the college was very first lecture and the very first question asked by sir was, "How many of you are from English medium. Raise your hand." The answer was not shocking for sir but it was definitely shocking for me and far all of us, because the number of hands raised were only 15 to 17 out of the strength of 150 students.

We were introduced with the different clubs in the college like, debate, fine arts, literary, science club and many more. We also had to choose atleast one out of NCC, NSS and sports. I chose NCC.

There was no holiday for NCC cadets. We had to come to college every Sunday from 7:30 to 12:00. It was very difficult in the beginning but as time passed it becomes the best learning time of the week. With the time, all the fears were overcome but yet my biggest fear, stage fear was still deep inside me.

Many activities were held during the year like drawing competition, flag collection, blood donation, debate, article writing competition etc. and yes the youth parliament was my first activity of college.

The day we got to know that the NSS Annual Camp is going to held, we all rushed to the NSS office for registration. But only 70 students can attend this camp. aahh! I was among these 70 students. The camp was of 7 days. For the closing ceremony, the sir needed an anchor for anchoring the whole programm. Sir chose me from the girls, I went for practising with shivering hand and voice, But I must say that at the end of the ceremony I was free from stage fear.

Again the next year began on 18 June, 2019. I entered the college as a student of Physics as a main subject we had Mathematics as an elective subject.

This year we were having some another kind of attitude. I don't know why may be because we became seniors or may be because now we have got desired subject or perhaps because we again met with our VPM family.

My Physics Department is very supportive of academic programs but strict in discipline.

In SY BSc, I attended one NCC camp for B Certificate Exam. So I went in the camp. 'TS'. I did TSC-IBC comp of 10 days in Thamna. It was a very nice experience.

It was a proud moment for us when our college got re-accredited by 'A' grade by NAAC, Bangalore.

In the final year, online teaching, started due to pandemic. It was nearly about 8 to 9 month we were at home thinking, when our college will re-open. Finally, the day came we get the news that our college will be now offline. This day was the happiest day. The eagerness of being in the college was like anything and finally the day came, we again gathered in college for offline lectures.

But alas ! this is going to end soon. we have very little time with us now. So, I would like to advise to SY & FY students to take part in the college activities organized by the college for your overall development and keep learning and keep enjoying.

## Andariya Manali

TY BSc (Physics)

### ये वक्त भी बीत जाएगा

आज इतना मुस्कुरा रहे हो, कल से रूला जाएगा...  
आज जो तुम्हें जोड़ रहा हूँ, वही तुम्हें कल तोड़ जाएगा...  
आज जो तेरे पास. हूँ, वो कल चला जाएगा...  
मेरे यार यह वक्त भी बीत जाएगा...  
क्यों मुसीबत में बैठे हो ? ये जरूर रास्ता दिखाएगा....  
हार-मत मेरे यार, ये जरूर कल तुझे जिताएगा...  
तू सिर्फ कोशिश करता जा, तुझे जरूर कामयाब बनाएगा ।  
इतना दुःखी मत हो प्यारे, ये वक्त भी बीत जाएगा ।

शुभम दरजी

अस.वाय. बी.अससी. (केमेस्ट्री)

## **My Experience of Hostel Life**

Hostel life transformed my personality completely. Stepping out of the comfort of my home equipped me with all the essential life skills I need to survive.

Every girl dreams of exploring the world and reaching out for the stars, but very few get the chance to do so. I feel blessed to have had my parent's support to fly high and pursue my dream of higher study.

I really looked forward to my hostel life when I enrolled into V. P. Science College for my B. Sc. in 2018. As luck would have it, I got the kind of room I had envisioned for myself in hostel.

When my family came to drop me off for the first time. I was apprehensive - how would I be able to manage my life without them ? However, time just flew and I have now completed two years and half years as a hostelite These have been the best years of my life.

Living in the hostel has been an enriching experience for me. It has helped me to gain a new perspective toward life.

Every new day brought in new life lessons. All the things I depended on my mother for, I learnt to do on my own. It made me strong and self reliant Right from my day one, I was the driver of my own decisions waking up to 7:00 a.m. and still making to the class at 10.00 surely sharpened my time management skills.

It surely taught me to value money and to handle my finances.

During these two and half years, living with people from diverse backgrounds helped me to enhance my skills, I learnt how to fight the odds, be resilient maintain my calm and keep going no matter what.

One thing that every hostel student excels at is making Maggi! With numerous recipes learnt over the years, Mess is the most happening zone of hostel

All the moments of fun. I spent with my friends in the hostel on a daily basis become beautiful memories once I look at them - Preparing for midnight birthday surprises, watching late night movies and then those long conversations on random topics.

My first experience of travelling alone by bus, packing my bags, going to the station, finding my seat, the continuous thumping of my heart, until I was home - it just made me fearless and now I don't hesitate to grab my backpack on impulse and step out for a new adventure every now and then.

Hostel life taught me a lot of things like sense of responsibility, sense of

adaptability, sense of acceptance towards people from diverse background.

The hostel has become my second home. I love every bit of being here. I have connected with people from different cultures. My friends have accepted me with all my crazy habits and mood swings. My interactions with them have helped me to develop a sense of acceptance towards people from diverse backgrounds. The hostel wardens are also caring. I really enjoyed being part of the hostel committee where I learnt to contribute to the world around me.

**Thakkar Maitri H.**

TY BSc (Maths)

## Books

I am in love with my books  
which share with all I do,  
Raising none of its crookes,  
Feeling the best with you,

I am depressed sometimes....  
You and I pick up with moment.....  
Ranging and quantifying and.....  
Learning all from you...

I am in love with my books  
chasing knowledge and experiencing  
differentiating and classifying  
everything from the bestie...  
The besite is always you...

Some people declines us from,  
each other, because of separation  
But I hate these people and I  
surely manage to achieve my goal,  
I had strong sensation with you,  
I generally like to have a  
study fact books, but reality  
Supresses me, I love u.... My Books.

**Helly Patel**

FY BSc



## **College Life**

College life is known as one of the most memorable years of one's life. It is entirely different from school life. College life expose us to new experiences and things that we were not familiar with earlier. For some people, college life means enjoying life to the fullest and partying hard. While for others, it is time to get serious about their career and study thoroughly for a brighter future. Nonetheless, college life remains a memorable time for all of us.

A college is a dreamland of a student's academic career. In college life, there is interaction with different people from different places and different families so that a student is able to know about different traditions and styles. This has a good effect on personality. It also develops a spirit of unity, brotherhood and friendship.

College life is a life of freedom. There is no fear of teachers. The teachers behave in a friendly manner. They develop a sense of duty and study the quality of the teachers and their effective teaching styles really make college life exceptional.

Functions, tours and sports are other aspects of college life. The most interesting part of college life among all is the tours and visits to different places. They are very happy occasions. They are memorable events of the student's life. The students enjoy them very much. On these occasion, they take photographs of friends and teachers. Group gathering and spending time with each other make those moments more valuable and memorable.

From the professional point of view, college is the best place. It provides the best facilities and the best route to success. The first and the last day, group of friends, unexpected holidays, functions of curricular and extra-curricular activities and adventures at hostels make college life the most memorable and unforgettable part of our life.

In school life, we were always dependent on our friends or teachers, college life teaches us to be independent. It makes us stronger and teaches us to fight our own battles. It also make us serious about our career. We make decisions that will affect our future all by ourselves, as in school life our parents did it for us.

College life experience is one of the precious experiences of one's life. The most common memory one has of college life are definitely, to spend time doing playful things with friends. One remembers how the group of friends walked around the college in style and playing silly pranks on each other. Moreover, people always look back at the times spent in the college canteen. It is considered as the hub of every student where all enjoy eating

and chatting away with the friends. Another thing that all the students eagerly wait for it and love is the Annual fest. The annual fest creates so much excitement amongst the students. All the competitions are carried out in a good spirit and the students dress their best to represent their best.

At the end, I can say that college life is a beautiful blend of joys and memories. On the whole, every day spent in college is loaded with some colourful events such as freedom, special breaks, (bunks), matches, and functions. No doubt college life is an ideal part of academic life. Its charm can never fade away.

**Andariya Maulika D.**

TY BSc (Maths)

## બાળપણ

મળે જો તક પરવરદિગાર પાસે કંઈક માંગવાની  
તો મારા જીવનની સૌથી સુંદર ક્ષણો પાછી માંગું.  
નદીની રેતમાં બનાવેલ મહેલ,  
ને વરસાદના પાણીમાં ચાલતી મારી નાવ માંગું.  
અગણિત તારાને ગણવા થયેલા એ પ્રયત્નો,  
ને સંતાકૂકડીની રમત પાછી માંગું.  
જીવનમાં હતી એ બેઝિકરાઈ  
ને વાતોમાં છલકતી હતી એ નિર્દોષતા પાછી માંગું  
ન સંબંધોના બંધન હતાં, કે ન હતો જવાબદારીનો ભાર.  
બસ હું ને મારી મસ્તી, આ જ હતો જિંદગીનો સાર.  
એ વખતનાં નિખાલસ હાસ્ય અને આજના માંડ ચહેરા પર આવતા  
સ્મિતમાં કેટલો બધો ફેર છે !!!  
હાથમાંથી રમકડાં છૂટતાં જ આપણે પરિસ્થિતિના હાથની કઠપૂતળી  
બની જઈએ છીએ. — શું આ જ જીવનનો ભેદ છે ???  
બહું યાદ આવે છે એ બાળપણના દિવસો,  
જ્યારે મોટા થવાનો શોખ હતો.  
પણ ત્યારે શું ખબર હતી...  
એ જમાનો જ કંઈક ઓર હતો...!!!

અપેક્ષા શીવાભાઈ વોરા  
એસ.વાય.બી.એસસી.(કેમેસ્ટ્રી)

## **My Experience in NCC**

In F.Y. B.Sc. out of NCC, NSS and Sports, I decided to join NCC as a service to my country.

I joined NCC (Army wings) two years ago. The full form of NCC is National Cadet Corps. The time I spent in NCC is the most precious time in my 20 years life. To join NCC I had to pass a physical test. We have parade on Mondays, Wednesdays, Fridays and Sunday. The parade starts on 7:00 am. Cadets who came late are severely punished. In the first year our ANO, PI Staff taught us a lot of things like different forms of parade e.g. simple March, how to give salute, how to coordinate with other, rifle parade. It was a wonderful experience.

In the second year I attended one CATC camp (combined Annual Training Camp) for 10 days at Mogri. I had already heard a lot about the camps from seniors and I had prepared myself for the fact that it was going to be rugged and tough, but an experience which I would always remember and cherish. And I must say, people were right about the rugged nature of this camp.

From waking up at 4:30 am to getting ready by 5:15 am for PT and Yoga, serving food to junior cadets, putting on the uniform for drill, to attending lectures, in afternoon there were different activities done like essay writing, drawing etc. I got silver medal in an essay competition.

To having a hard time comprehending the skits during cultural program like drama, dancing, singing etc. I had almost forgotten the essence of the word "easy".

NCC taught me leadership, time management, stress management, teamwork which made me unique.

I had last attended the camp at the end of last year and was scheduled to return in March but the Covid-19 played spoilsport but I am satisfied with efforts of the NCC camp for making all necessary arrangements like hand sanitisers and face masks to meet the challenge posed by the pandemic.

This year I just completed my last camp of my NCC's three years journey. In this year government permitted us 5 days for camp because of pandemic but in these 5 days we learnt a lot of things.

On the first day, I oversaw the arrangements of corona testing for all cadets. It was really a nice thing for our safety. From our food to our safety full care was taken by sir and Ma'm. The care of our hygiene and health was taken very well. The food provided to us was fresh and nutritious. because of

all PI staff and instructors. I did not experience any difficulty during the camp hours.

Most importantly our safety was given top priority in this Covid-19 pandemic. Social distancing and masks were made compulsory. CATC camp was really the best experience to me.

I do not have more words to explain my experience in NCC because it is not easy for me. At last I want to say that I learnt a lot from NCC in which unity and discipline is must. I request everyone to please join NCC which helps you to understand life and give a proper direction to your dream. I feel proud to be a part of NCC & it is my dream to become a part of Indian forces.

NCC was the turning point in my life. It changed me from common person to a special person.

**Thakkar Maitri H.**

TY BSc (Maths)

**તને ક્યાં કઈ ફરક પડે છે !**

આ સ્વાર્થ ભરેલી દુનિયામાં એક તારી સાથે નિઃસ્વાર્થતાનો સંબંધ માનું છું પણ  
તને ક્યાં ફરક પડે છે !  
તારા મુખ પર સ્મિત જોઈને, મારા બધાં દુઃખ ભૂલીને સ્મિત કરું છું પણ  
તને ક્યાં કઈ ફરક પડે છે !  
તારી નારાજગી, તારો ગુસ્સો સહન કરીને પણ તારી સાથે રહેવા માંગું છું પણ  
તને ક્યાં ફરક પડે છે !  
તને સમજાવીને, તને મનાવીને, પોતાનાથી જ હારી જાવ છું. પણ  
તને ક્યાં ફરક પડે છે !  
મારા શબ્દોની તને કોઈ કિંમત નથી, તો મારી ખામોશીથી પણ,  
તને ક્યાં ફરક પડે છે !  
તારા સાથે ન હોવા છતાં પણ, તારી યાદોને રોજ જીવું છું પણ  
તને ક્યાં ફરક પડે છે !  
ઘણી બધી નિરાશાઓમાં પણ એક આશા છે કે તને ક્યારેક તો ફરક પડશે પણ  
તને ક્યાં ફરક પડે છે !  
માટીનું શરીર છે, એક દિવસ માટીમાં જ મળી જશે, મારા હોવા ન હોવાથી પણ,  
તને ક્યાં ફરક પડે છે !  
તને ક્યાં ફરક પડે છે !

દિવ્યા અગ્રવાલ

એસ.વાય બીએસ.સી. (બોટની)

## **The Pandemic Lockdown**

How the planet Earth got a breather !!

Have you ever, even thought that this roads will look like this - "a home without mom and dad: these restaurants without foody people who waited, swallowing half a litre of saliva between ordering and having food in the plate. The cinema's without youth ! Now look like a haunted complex. Eerie sound those cafe's have without those new lover's or family chatting ! "All we do is a stare to them....

Have you ever seen those high rise chimneys now not having white cloud like smoke out ?

We just can't imagine or think of these things for even a second. But this is what has actually happened. Until today we have over used every natural resources so because we were having access to it so easily ! and now ?

The phone that we unlock now is just that opens one page of google for latest news COVID-19. Rather before we just scrolled up for Instagram WhatsApp etc.

It feels like GOD is making us appear for life examination all together isn't it ??

But we science students, always dig for positive damp ! Right ? Yes, with this we are saving a lot in terms of resources; fossil fuels and all mighty mother Earth. The rivers now flow with purity of "that fresh bud growing into a flower in spring; the essence of nature love ! isn't so. Our Ganga - actually is getting more prestigious...

The ozone layer is healing not to catch a train but of course in a speed of sun power.

Those animals might be in a search, why those horrible creatures "human" now don't visit our place ? Air is being purified to an extent, the layer of pollutants is vanishing day by day and that is how we see stars more brighter isn't it ? Ever thought that such disaster will come, no nah ! now look and analyse. This is "Life" No, one can expect and predict what's next !!! Just stay and blend with the present..."God Bless us" !

Without human activities, the quality of air and river water actually improved. There were images of the snow capped Himalayan peaks becoming visible from far off places in North India and sparkling river water. It has been proved once again that we can't survive without nature but nature can actually thrive without us.

**Patel Hetsvi**

TY BSc (Zoology)

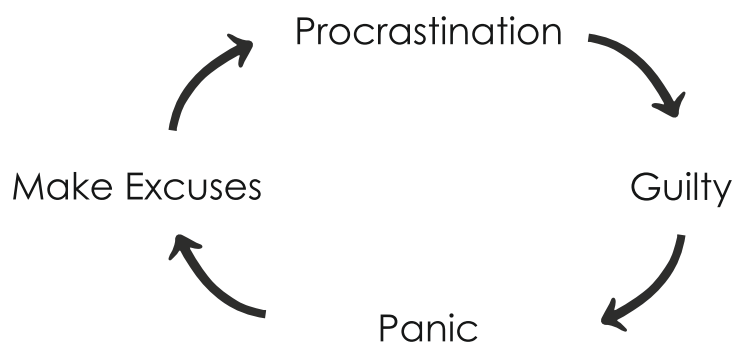
## Procrastination

Procrastination causes loss of time. One of these days is none of these days, isn't that true ? According to definition, procrastination is a realistic time frame for their completion. Mostly for a businessman and a student, is habit of delaying tasks.

Moments of prompt decisions not only shape your personality but also your destiny. Remember, what you do today defines your tomorrow !. So procrastination leads to frittering away of precious time. A student wastes their time an scrolling social media rather than focussing on their studies. Procrastination leads to failure in meeting deadlines or fulfilling objectives. Hence, you may leave important tasks undone. Procrastination leads to poor performance or unsatisfactory results. This may lead to anxiety. A person who is investing in stocks needs to check the performance of stocks rather than doing uncertain activities. Procrastination promotes negatives feelings due to lack of progress. This results in self-defecting behaviour and loss of self-esteem. Also when you procrastinate, you increase your own as well as others workload.

It is always a risk to leave tasks to be done later as most of us are aware that tomorrow never comes. You are responsible for your attitude, productivity and efficiency. Here are few things which I describe to avoid procrastination and get more organized to accomplish your tasks effectively.

### The Procrastination Cycle



We have to change this procrastination cycle to overcome bad habits of wasting time.

1. Make to-do list, prepare a schedule or timetable.
2. Deal with one task at a time and commit to it.
3. Set a deadline.
4. Prioritise your tasks start with the most difficult.

5. Tackle tasks as soon as possible or you arise
6. Reward yourself.
7. Keep yourself motivated

Overall procrastination robs time. So one should focus on doing today's task today rather than delaying it to tomorrow to get satisfied and successful result.

**Patel Hariom V.**

TY BSc (Botany)

## બદલાઈ ગયું છે આજ !!!

જો ને મારા બંધુ, બધુ બદલાઈ ગયું છે આજ,  
કાલે કરેલી મઝા, યાદ બની ગઈ છે આજ,  
માનવ-મેળો ને ભાઈ-ચારો, કરે દુરથી સલામ આજ,  
જો ને મારા બંધુ, બધુ બદલાઈ ગયું છે આજ,  
મેટ્રો ટ્રેનની ઝડપે ચાલતી આ દુનિયા,  
થોડી થંભી ગઈ છે આજ,  
શેરી મહોલ્લાને રસ્તા પર,  
કોઈ સંભળાતો નથી અવાજ  
જો ને મારા બંધુ, બધુ બદલાઈ ગયું છે આજ  
ભારે થયું છે જન-જીવનમાં કામ-કાજ આજ,  
હોસ્પિટલના પેલા ખાલી પલંગ, ખૂટી પડ્યા છે આજ,  
કોઈના ઘરનો દીપક બુઝાઈ ગયો છે આજ,  
જો ને મારા બંધુ, બધુ બદલાઈ ગયું છે આજ,  
જો ને કેવી મહામારી આવી પડી છે આજ,  
બંજર બને દુનિયા ને કુદરતની છે રાજ,  
હાની થઈ છે માનવને, લાભ થયો જનાવરને,  
જો ને મારા બંધુ, બધુ બદલાઈ ગયું છે આજ,  
અશુદ્ધ એવું પર્યાવરણ, થોડું સારું શરૂ થયું છે. આજ,  
મહામારી સાથે, કોઈને થયો છે થોડો લાભ,  
સમય ખરાબ ચાલે છે, નવો સુરજ ઊગશે કાલ,  
જે બદલાઈ ગયું છે આજ, ફરી બદલાશે કાલ,  
રાહ જોજે મારા બંધુ, કાલે ફરી થશે એક આજ.

વર્ષા મકવાણા

એસ.વાય.બી.એસસી.(માઈકોબાયોલોજી)

## **What I Expect From College Education**

"The aim of education is knowledge, not of facts, but of values".

Now a days, every school student is willing to be a part of the college life. I'm also one of them. But after taking admission in college I had come to know about many things in college and it's education style. But firstly, what is a college actually ?

College is the life defining phase in which one's career starts developing. Our life gets shaped after stepping towards college. All students get their basic education from

the schools. But in college, one gets a detailed knowledge about their interested subjects.

The benefits of a college education include career opportunities like better paying jobs and higher skilled jobs but also it leads to overall happiness and stability. The most obvious outcome of a college education is of detailed knowledge of some specific subject. In this era, the level of education has been increasing day by day. Every job requires a perfect qualification, knowledge and skills regarding the work. As being now, a college student, I also expect education from my college.

1. Students should be encouraged to write review paper to create working/non-working models. It is more important to learn how things work in the real life. Such changes can be helpful to the student. Also by this way, the student will get the concept clear as when they will know about the studies in real life whether it is a biological subject or other. Main prospect of every education system must be of clearing the concepts of a student.
2. Student need something to take their mind off the academic pressure and stress they face. Many colleges lack proper facilities for outdoor games. Since the 7.5 hour college schedule is pretty hectic, especially when there are practicals for the respective subjects. Having only half-an-hour break in between, more opportunities for recreation should be provided to enhance their productivity. By this way, the student would get a chance to activate their mind and then they can be productive to their work.
3. Developing learning Skills : A lot of students try to find a way to meet the minimum standard with nor maximum but minimum effort, but this is a mistake. Classes outside your major aren't a waste of time, they are an essential part of college education, and a foundation for future success. Many have inner choice of learning skills would help them in their future ahead. When you eventually graduate and get a job, one of these will probably be the most immediately important, which is why you major in a

specific subject, with its particular set of standard practices. But on the time scale of a career, unless you plan to retire from the exact same job you start in, you'll eventually need to operate in new ways and different contexts. And that's where those non-major classes help. Being forced to think, act and learn in the specific manner of several different fields.

4. There are multimedia projectors in every class in some of colleges. These projectors would help in digital learning. Through this way, students will see and visualize many other informative things or pictures which is not available in their textbooks. While teaching on projectors will help to learn and memorize things quickly. Colleges can use these projectors to held seminars on various topics such as self-care, Web-scam, Personal care, Activities to improve personality etc. Also some motivating clips should be shown to the students. It will motivate them and they would get inspired to do better ahead.

These are the things which I expect from my college. I know many things are improving and also I'm trying to improve myself in every possible ways which would help me further in my life. Not only me, I also encourage my unknown ones or friends to improve themselves daily through the college as this chance will not come again in to our life. So its better to do something when your college is providing you chances so that you do not regret later.

**Carolina C. Mascarenhas**

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*Live as if you were  
to die tomorrow.  
Learn as if you were  
to live forever*

*Mahatma Gandhi*

## The Female Genius Mathematician શકુંતલાદેવી



આપણે દરેક ક્ષેત્રમાં ઘણા પ્રતિભાશાળી વ્યક્તિઓના નામ સાંભળ્યા છે જેમ કે આર્યભટ્ટ, યુક્લિડ, આઈન્સ્ટાઈન, શ્રીનિવાસ રામાનુજન વગેરે.. પરંતુ આપણે અહીં એક એવા પ્રતિભાશાળી મહિલા ગણિતજ્ઞ કે જેઓને ગણિતના આંકડા સાથે રમતા આવડતું હતું તેમની વાત કરવા જઈ રહ્યા છીએ.

શકુંતલાદેવી !! The Indian first female mathematician, A human calculator... આવા ઘણા ઉપનામ આપવા યોગ્ય રહેશે. આ એ વ્યક્તિ છે જે મોટામાં મોટી ગણતરીઓ સેકન્ડોમાં કરવાની ખૂબી ધરાવતા હતા. તેમની ગણનયંત્રની જેમ ગણતરી કરવાની પ્રતિભાથી તેમણે ૧૯૮૨માં ગિનિઝ બુક ઓફ વર્લ્ડ રેકોર્ડ્સમાં સ્થાન મેળવ્યું છે. ત્યારબાદ તેમણે ઘણી બધી સિદ્ધિઓ હાંસલ કરી હતી.

શકુંતલા દેવીનો જન્મ ૪ નવેમ્બર, ૧૯૨૯ ના રોજ બેંગ્લોર, કર્ણાટકમાં એક કન્નડ બ્રાહ્મણ પરિવારમાં થયો હતો. તેમના પિતાનું નામ સી.વી.સુંદર રાજારાવ હતું. જે સર્કસમાં કલાકાર તરીકે કામ કરતા હતા. જ્યારે શકુંતલા દેવીને ૩ વર્ષના હતા ત્યારે તેમના પિતા કાર્ડ ટ્રીક શીખવતા હતા. ત્યારથી જ શકુંતલા દેવીને આંકડા યાદ કરવાની ક્ષમતા મળી હતી. ૬ વર્ષની નાની વયે તેમને મૈસુર યુનિવર્સિટીમાં અંકગણિતની ક્ષમતાઓ દર્શાવી. ત્યાંના અધ્યાપકો શકુંતલા દેવીથી ઘણા પ્રભાવિત થયા હતાં.

ત્યારબાદ ૧૯૪૪માં શકુંતલા દેવી તેમનાં પિતા સાથે લંડન ગયા. જ્યાં શકુંતલા દેવી કેલિફોર્નિયા, બર્કલેમાં ત્યાંના અધ્યાપક આર્થર જોન્સનને પોતાની પ્રતિભા દર્શાવી. બધા તેમની આ કળા જોઈને અચંબિત થઈ ગયા હતા. ત્યારબાદ ૧૯૬૦ માં તેઓ ભારત પાછા ફર્યા હતા. તેમણે એક ભારતીય વહીવટી અધિકારી તરીકે કોલકત્તામાં ફરજ બજાવી હતી.

કોઈપણ ગણતરીનો ઉકેલ મેળવવાનો હોય એ ગમે તેવો અઘરો હોય, શકુંતલા દેવી તેનો ઉકેલ સચોટ રીતે મેળવતા હતા. શકુંતલા દેવીએ ઘણી યુનિવર્સિટીઓમાં પોતાની કળા પ્રદર્શિત કરી ત્યાંના વિદ્યાર્થીઓને પ્રેરણા આપી.

શકુંતલા દેવીએ ૧૮ જૂન, ૧૯૮૦ ના રોજ ૧૩-૧૩ અંકોના ગુણાકારનું નિર્દેશન કર્યું. દા.ત. ૭,૬૮૬, ૩૬૮, ૭૭૪, ૮૭૦ x ૨, ૪૬૫, ૦૮૮, ૭૪૫, ૭૭૮. ઉપરના આંકડા ઇમ્પિરીયલ કોલેજ લંડનમાં કોમ્પ્યુટિંગ વિભાગ દ્વારા રેન્ડમ લેવામાં આવ્યા હતા. શકુંતલા દેવીએ ૨૮ સેકન્ડમાં ઉપરના ૧૩-૧૩ અંકોનો જવાબ આપ્યો હતો. જે. આ પ્રમાણે છે. ૧૮, ૮૪૭, ૬૬૮, ૧૭૭, ૮૮૫, ૪૨૬, ૪૬૨, ૭૭૩, ૭૩૦. આવી ઘણી મોટા અંકોની ગણતરીઓ મિનિટોમાં કરી આપતા હતા. બધા તેમની આ ખૂબીથી આશ્ચર્યચકિત થઈ જતા હતા. આ પ્રતિભા ૧૯૮૨ માં “ગિનિસ બુક ઓફ વર્લ્ડ રેકોર્ડ” નોંધણી પામી હતી. શકુંતલા દેવી લિખિત પુસ્તક; 'The Toy of Numbers' માં માનસિક ગણતરીઓ કરવાની ઘણી પદ્ધતિઓ વિશે વિસ્તારથી સમજાવ્યું. આમ, તેમણે પોતાનામાં રહેલી પ્રતિભાને બધાં સમક્ષ રજૂ કરવા માટે પુસ્તકો લખ્યા. શકુંતલા દેવી એક નોંધપાત્ર જ્યોતિષી અને નવલકથાઓ સહિત ઘણા પુસ્તકોના લેખક હતા. આ ઉપરાંત તેમને સંગીતમાં પણ રૂચિ હતી.

શકુંતલા દેવીએ ૧૯૬૦માં કોલકત્તાના ઓફિસર પરિતોષ બેનર્જી સાથે લગ્ન કર્યા. તેમને એક પુત્રી પણ છે. જેમનું નામ અનુપમા બેનર્જી છે. શકુંતલા દેવીએ લગ્ન કર્યા હતા ત્યારે તેમને કહ્યું હતું કે ‘મારા નામની પાછળ મારા પિતાનું નામ આવશે’ તેથી તેમનાં લગ્ન ટૂંક સમયમાં છૂટા પડી ગયા હતા.

એપ્રિલ ૨૦૧૩ માં શકુંતલા દેવીને શ્વાસની તીવ્ર સમસ્યાઓના કારણે બેંગ્લોરની એક હોસ્પિટલમાં રાખવામાં આવ્યા હતા. પછીના ૨ અઠવાડિયામાં તેમને હૃદય અને કિડની બિમારીઓનો સામનો કરવો પડ્યો. આવી ઘણી સમસ્યાઓના કારણે ૨૧ એપ્રિલ ૨૦૧૩ ના રોજ દેવલોક પામ્યા હતા. ત્યારે તેઓ ૮૩ વર્ષના હતા.

ચિરાગ વણજારા

ટી.વાય.બી.એસસી.(મેથ્સ)

## સ્વામી વિવેકાનંદજી : યુવાનોના પ્રેરણાસ્ત્રોત

યુવાવસ્થા એ માનવજીવનનો એ તબક્કો છે કે જે દરમિયાન એક તરુણ હવે પોતાના (જીવન) અંગે ગંભીર દૃષ્ટિકોણ કેળવવાની શરૂઆત કરે છે. કહો કે તેણે શરૂઆત કરવી જોઈએ ! તે યુવા હવે માનવ-માનવ સંબંધો, માનવ-પ્રકૃતિ સંબંધોને સમજવા માટે તૈયાર થાય છે. માનવ જીવનના ધ્યેયને સમજવા માટે એ પ્રયત્નો કરે છે. આવા તબક્કા દરમિયાન તે યુવા પોતાના આત્મજનો, અનુભવી વ્યક્તિઓ પાસેથી યોગ્ય માર્ગદર્શનથી સ્વાભાવિક અપેક્ષા રાખે જ છે. ભારતવર્ષની આ પુણ્યધરા પર અનેક મહાનુભાવો જન્મી ચુક્યા છે. પરંતુ તે દરેકમાંથી યુવાઓને સૌથી વધુ માર્ગદર્શન પુરું પાડનાર જો કોઈ હોય તો તે સ્વામી વિવેકાનંદજી છે. આથી જ તેઓ યુવાનોમાં સૌથી પ્રિય પણ છે.



સ્વામીએ આમ તો આબાલવૃદ્ધ સૌને પ્રેરણા, માર્ગદર્શન પૂરાં પાડ્યાં છે, પરંતુ તેઓએ યુવાનો માટે અનેક વિચારો વ્યક્ત કર્યાં છે. સ્વામીજીનું આ વિધાન ખૂબ પ્રચલિત છે: ‘જો મને નિષ્ઠાથી ઉભરાતા સો યુવાનો મળી આવે, તો આ જગતની સૂરત પલટાઈ જાય. પરંતુ આ જગતની સૂરત હજી સુધી પલટાઈ નથી. એનો અર્થ એ જ કે સ્વામીજીને એ સો યુવાનો હજી સુધી મળ્યાં નથી. હવે પ્રશ્ન એ થાય કે તેવા બનવું કઈ રીતે? જવાબ સરળ છે, સ્વામીજીએ ચીંધેલા પથને સમજી, જાણીને તેના પર આગળ ને આગળ વધતાં રહીએ. તે માટે સ્વામીજીનાં વિચારોને સમજવાની જાણવાની ચકાસવાની અને તેને આચરણમાં લાવવાની જરૂર છે.

સ્વામીજીએ શરીરને સ્વસ્થ તથા તંદુરસ્ત રાખવા ઉપરાંત સશક્ત બનાવવા અંગે યુવાનોને સંબોધ્યા છે. તેમણે કહ્યું છે, ‘‘બળ એટલે જીવન નિર્બળતા એટલે મૃત્યુ. નિર્બળતા એટલે જીવનનો ક્ષય’’ ધર્મની સાધના કરવા માટે શરીર એ આવશ્યક સાધન છે. આથી તેનું સ્વસ્થ રહેવું અનિવાર્ય છે. અને જો યુવાવસ્થામાં જ ‘શરીર એ એક સાધન છે.’ એ સ્પષ્ટતા થઈ જાય, તો આ જીવન ધન્ય થઈ જાય ! ખરેખર, સ્વામીજીનું કાર્ય ખૂબ સચોટ છે ! સ્વામીજી કહેતા, ‘‘સૌથી પહેલી વસ્તુ એ છે કે આપણા યુવાનોએ બળવાન બનવું પડશે. ધર્મ તો પાછળથી પોતાની મેળે આવશે જ. જો તેમની નસોમાં વધુ શક્તિશાળી રક્ત વહેતું હશે તો તેઓ શ્રીકૃષ્ણની વિરાટ પ્રતિભાને વધુ સારી રીતે સમજી શકશે.’’

હવે, અહીં એક સ્પષ્ટતા કરી લેવી ખૂબ જરૂરી છે કે સ્વામીજીએ માત્ર શારીરિક રીતે જ બળવાન બનવાનું યુવાનોને નથી કહ્યું. સ્વામીજીનું એક આ વિધાન પણ છે. ‘‘તમે તો અમર છો, મુક્ત છો, ધન્ય છો, નિત્ય છો ! તમે જડ પદાર્થ નથી, શરીર નથી. આ શરીર તમારું સાધન છે, તમે એના દાસ નથી.’’ આથી આપણે યુવાઓએ માત્ર શરીર પર જ ધ્યાન આપવાનું નથી. તેનાથી વધુ અગત્ય આપણે આધ્યાત્મિક વિકાસ છે.

સ્વામીજીએ વેદો-ઉપનિષદોની ક્લિષ્ટ ભાષામાં કહેવાયેલી બાબતોને સરળ બનાવી રજૂ કરી છે. તેમણે યુવાનોને ઈચ્છાશક્તિ પર કાર્ય કરવા અંગે ઘણીવાર સંબોધ્યા છે. તેમણે કહ્યું છે કે, ‘‘જો તમારે સફળતા પ્રાપ્ત કરવી હોય તો તમારી પાસે લોખંડી સ્નાયુઓ અને દૃઢ ઈચ્છાશક્તિ હોવાં જોઈએ.

હવે, આધ્યાત્મિક વિકાસ કરવો એટલે સતત ગંભીર બની જવાની વાત નથી. સ્વામીજી કહેતા, ‘‘આપણાં યુવાનોએ આનંદી અને ઉત્સાહી બનવું જોઈએ. ઉદાસીન ચહેરાઓ કાંઈ ધર્મનું નિર્માણ કરી શકે નહીં. ધર્મ તો જગતની સૌથી વધુ આનંદપૂર્ણ વસ્તુ છે !’’ પણ અહીં પ્રશ્ન થાય કે સતત આનંદમય રહેવું કઈ રીતે? યુવાનો પાસે તો હતાશ થવાના ઘણા કારણો હોય છે ! તો, આનો જવાબ પણ સ્વામીજી પાસેથી મળી રહે છે. તેઓએ કહ્યું છે, ‘‘હંમેશા અંદર દૃષ્ટિપાત કરો, બહાર નહીં. આવી જ પૂજાનો ઉપદેશ વેદાંત આપે છે.’’ આપણે દર વખતે બાહ્ય-પરિસ્થિતિઓને કારણે જ દુઃખી થતાં હોઈએ છીએ. જો આપણું ધ્યાન સતત બહાર હોવાને બદલે આપણાં (ભાવો, વિચારો) પર હશે તો આપણે નિત્ય આનંદમય રહી જ શકીશું, એમ સ્વામીજીનું કહેવું છે. સ્વામીજીએ આ સંદર્ભે એક મજાની વાત કરી છે: ‘‘દરરોજ ઓછામાં ઓછું એક કલાક માટે પોતાના (ભાવ, વિચારો) પર ધ્યાન આપો. નહીંતર તમે વિશ્વના એક ઉમદા વ્યક્તિને મળવાનું ચૂકી જશો !’’

અને અંતે એક સ્પષ્ટતા કરવી જોઈએ કે સ્વામીજીનો એ દેહ હવે હાજર નથી, સ્વામીજી તો આપણને સૌને હજારો વર્ષો સુધી પ્રેરણા આપતાં રહેશે. તેમણે કહ્યું હતું, ‘‘હું મૃત્યુપર્યંત લોકોને પ્રેરણા આપતો રહીશ. મૃત્યુ પછી પણ આવનારા ઘણા વર્ષો સુધી હું માનવજાતિને પ્રેરણા આપતો રહીશ. જ્યાં સુધી વિશ્વનો પ્રત્યેક માનવ સમજદાર ન બની જાય ત્યાં સુધી પ્રેરણા આપતો રહીશ.’’

તો આવો, આપણે સૌ યુવાનો આ અવિરત પ્રેરણા-પ્રવાહમાં અગાધ ડૂબકી લગાવીને સ્વામીજીએ ઈચ્છેલાં એ સો યુવાનોમાં સ્થાન મેળવવા સક્ષમ બનીએ.

વેદાંત રાવળ ‘વિવેક’

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## નોર્થપોલ : પુસ્તક સમીક્ષા

મેં લોકડાઉનમાં સૌથી સારી ટેવ પાડી એ છે - પુસ્તકો વાંચવાની. મેં હિંદી, ગુજરાતી અને અંગ્રેજી ભાષામાં આ સમય દરમ્યાન ઘણી નવલકથાઓ વાંચી. અને એમાંથી જ એક ગુજરાતી નવલકથા “નોર્થપોલ” વિશે હું વાત કરવા માગું છું. જેના લેખક છે શ્રી જીતેશ દોંગા.

નોર્થ પોલ એક વાર્તા છે - એક સાધારણ યુવાનની કે જે એન્જિનિયર છે. અને આ વાર્તા છે આ યુવાનની આત્મખોજની. આ સાધારણ યુવાનમાં એક અસાધારણ વાત એ હતી કે, તેને આ “સાધારણ” શબ્દથી નફરત હતી. આ શબ્દ તેના હૃદયમાં સતત ખૂંચ્યા કરતો. અને તેનું કારણ હતું તમન્નાઓ. તેને તમન્નાઓ હતી. દુનિયાએ બનાવેલ સાધારણ નિયમોથી વિરુદ્ધ જઈ કંઈક અલગ કરવાની, સોસાયટીએ બનાવેલા ચોકઠામાંથી બહાર નીકળીને પોતાની રીતે જીવવાની અને હૃદયના ઉંડાણમાં પડેલા સપનાઓને ઉલેચીને જીવવાની એકેએક રસને પીવાની. પોતાના મનગમતા કામ, પોતાના પેશનને વ્યવસાય બનાવી તેણે જીવવાની મજા માણવી હતી. પરંતુ ઉપાધિ જ ત્યાં હતી કે તેને પોતાનું પેશન જ ખબર નથી. અને આ કારણસર તે પીડાય છે. તે પોતાની જાતને ફલોપ સમજે છે, પોતાની જીવન ફલોપ સમજે છે. આવાને આવા વિચારોમાં હંમેશા ઉદાસ રહે છે. તેને પોતાનું “હોવું” વ્યર્થ લાગે છે. અને આ વ્યર્થતા આગળ કોઈ પોઝિટિવ વાતો, કોઈ મોટિવેશનલ સ્ટોરી, કંઈ જ કામ આવતું નથી. આવા વિચારોથી કંટાળીને કે એમ પણ કહી શકાય પ્રેરાઈને આ યુવાન એક દિવસ નીકળી પડે છે. પોતાનું પેશન શોધવા, માંડ માંડ મળેલી અને ન ગમતી જોબ છોડીને તથા સમાજના પ્રવાહની સાથે વહેવાના નિયમને તોડીને, પોતે અલગ પ્રવાહનું નિર્માણ કરીને આ યાત્રામાં તેની પીડાનું શમન કરવા તેના જીવનમાં આવે છે, તેની મિત્ર, માર્ગદર્શક અને જીવનસંગીની. જે આ યુવાનને જીવન જીવતા શીખવે છે, તેની અંદર રહેલા કંઈક કરી બતાવવાના સ્પાર્કને ઉજવતાં શીખવે છે, પેશન શોધવાની યાત્રાને માણતાં શીખવે છે અને તેને સમજાવે છે કે, તેની અંદર પોતાની જાત પ્રત્યે તથા સમાજ પ્રત્યે જે ગુસ્સો છે, તે તેની કમજોરી નહિ પરંતુ તેની તાકાત બનવો જોઈએ. કારણ કે, કંઈક કરી બતાવવા માટે ક્યાંક ને ક્યાંક આ ગુસ્સો તથા જૂના નિયમો પ્રત્યે અણગમો પણ જરૂરી છે.

આપણાં મનમાં ભવિષ્ય વિશેના, જીવન વિશેના ઘણાં સવાલો હોય છે. જેના જવાબ મળવા ખૂબ જ મુશ્કેલ હોય છે. અને ઘણીવાર ઘણા બધાં પ્રયત્નો પછી પણ જવાબો ના મળતાં આપણે પરિસ્થિતિને સ્વીકારી, તે પરિસ્થિતિને જ જવાબ સમજી, જવાબો શોધવાનું પડતું મૂકીને આગળ વધી જઈએ છીએ અને ન ગમતું કામ કરવામાં આખી જીવન વીતી જાય છે. ભણવું, સારી જોબ મેળવવી, પૈસા કમાવા, લગ્ન કરવા, ત્યારબાદ બાળકો, બાળકોને ભણાવવા, તેમની લાઈફ સુરક્ષિત કરવી અને દુનિયાના ને સમાજના વ્યવહારોને સાચવતાં સાચવતાં જ એક દિવસ આ દુનિયામાંથી વિદાય લઈ લેવી. આ ચક્રનું મોટાભાગનાં લોકો જીવન સમજી લે છે.

જ્યારે આ વાર્તા શીખવે છે કે, ફક્ત આ જ જીવન નથી. તમારું કંઈક લક્ષ્ય હોવું જોઈએ, અને એ લક્ષ્ય પ્રત્યે તમે પૂર્ણતઃ સમર્પિત હોવા જોઈએ, એ લક્ષ્ય જો ખબર ના હોય, તો તેની શોધ કરો અને તેને પ્રાપ્ત કરવા મહેનત કરવા લાગો. દુનિયાના ને સમાજના જે નિયમો નથી ગમતાં તેનો અસ્વીકાર કરો. કારણ કે, જે માણસ દુનિયાના નિયમોનો અસ્વીકાર કરવા ઊભો થાય છે તેને માટે જગત ખુશ થઈને પોતાના અમુક નિયમો તો બદલી જ આપે છે, નાછૂટકે બદલવા પડે છે. આ વાર્તાના નાયકનો જે ગુસ્સો તથા જીવન પ્રત્યેનો ધિક્કાર છે અથવા તો એમ કહું, “સામાન્ય” જીવન પ્રત્યેનો ધિક્કાર, જે વગર વિચારે ઘેટાંના ટોળામાં જવાથી ઉત્પન્ન થયો હોય છે તે પણ ક્યાંકને ક્યાંક સફળ જીવન માટે જરૂરી છે. પરંતુ એ ધિક્કાર તમારી ખુશીનાં ભોગે પણ પણ ન હોવો જોઈએ. માણસે ખુશ રહેવું જોઈએ. જે નાનકડી મસ્ત મજાની જિંદગાની મળી છે તેને વધુ સારી બનાવાની દોડમાં જીવવાનું જ ભૂલી જઈએ એ પણ ના ચાલે. જીવનની ઉજવણી કરવી જોઈએ.

આવાં સુવર્ણ વિચારો વ્યક્ત કરતી આ વાર્તા જીવ તરફનાં દૃષ્ટિકોણને એક અલગ દિશા આપનારી છે.

અપેક્ષા વોરા

બી.એસસી.

## વિજ્ઞાન એ એક અધ્યાત્મનો ભાગ

અધ્યાત્મ એ ધર્મધારણા, ધાર્મિક ભાવના વગેરે નામોથી તે ઓળખાય છે. આત્મિકી એક સર્વાંગપૂર્ણ આત્મસુધારનું વિજ્ઞાન છે. અધ્યાત્મ ક્ષેત્રને વિજ્ઞાન વડે હંમેશા પડકારવામાં આવે છે. કેમકે એની ઉપર ભ્રાન્તિઓ, ગૂઢ માન્યતાઓનું એક ધુમ્મસ છવાયેલું છે.

અધ્યાત્મના શાશ્વત, સનાતન, અનાદિરૂપને ઋષિઓને આત્મવચનોના માધ્યમથી પ્રકટ કર્યું. અને એ જ આપણી સમક્ષ બદલાયેલા સ્વરૂપે હયાત છે. એનું શું કારણ છે? આખરે શા માટે વિજ્ઞાનને એવી તક મળી કે જેથી તે અધ્યાત્મ ઉપર ઘા કરી શક્યું? અધ્યાત્મે વિજ્ઞાન દ્વારા ઊભી કરાયેલી શંકાઓ ઉપર વિવેકયુક્ત જવાબ આપવાને બદલે ઘૃણા ઉત્પન્ન કરી પરિણામે અધ્યાત્મ વિજ્ઞાન સંદેહ, વહેમ, અપ્રમાણિકતા વગેરે આરોપોનું શિકાર બનતું આવ્યું. પરંતુ હવે સમય આવી ગયો છે. પોતાના વ્યક્તિગત અનુભવોના આધાર પર પ્રમાણિત કરીને જન સાધારણને બનાવવામાં આવે છે. અધ્યાત્મ, અનુશાસન અને સાધનાઓ એટલી જ વિજ્ઞાન સંમત છે કે જેટલી પદાર્થ વિજ્ઞાનની વિદ્યાઓ.

આ વિશ્વ બ્રહ્માંડ ચેતના અને પદાર્થ વડે બન્યું છે. પદાર્થ વિશેના જ્ઞાનને ભૌતિક વિજ્ઞાન કહેવામાં આવે અને ચેતના વિષયક તત્ત્વજ્ઞાનથી ઉત્કર્ષની વિવિધ વ્યવસ્થાને ‘અધ્યાત્મ વિજ્ઞાન’ કહેવામાં આવે છે. બંનેના સંયોગથી જ “વિજ્ઞાન” શબ્દની સમગ્રતા અને સાર્થકતા સિધ્ધ થાય છે.

ભૌતિક વિજ્ઞાનના સિદ્ધાંતને કસોટી પર લઈ શકાય છે. તથ્યની યથાર્થતા પારખવાની દરેકને છૂટ છે. આને કારણે તેની પ્રામાણિકતા શંકારહિત મનાય છે. પરંતુ અધ્યાત્મ વિજ્ઞાનની બાબતમાં મોટી મુશ્કેલી એ છે કે તેના સિદ્ધાંતો માન્યતાઓ અદૃશ્ય સાથે સંબંધિત હોય છે. તર્ક, તથ્ય, પ્રમાણ અને પ્રત્યક્ષતા આધારે તેને વિશ્વસનીય રીતે સિદ્ધ કરી શકાતું નથી.

ચેતના પદાર્થથી પણ મોટી છે. શ્રેષ્ઠ છે. છતાંય અસમંજસને કારણે વિજ્ઞાનનો ભૌતિક પ્રશ્ન જ લોકોને ગળે ઉતર્યો. જ્યારે અધ્યાત્મ માત્ર શ્રદ્ધા વગર ભાવનાના કાચા તાંતણે લટકતો રહ્યો. તેથી જ કદાચ ત્રાજવામાં તોલવામાં આવે તો વૈજ્ઞાનિક વજનદાર ગણાય છે. અને અધ્યાત્મવાદી હલકો ગણાય છે.

ધર્મરહિત વિજ્ઞાન આપણો સર્વનાશ કરીને જ છોડશે. વિજ્ઞાને મનુષ્યને બહુ જ સુખ સુવિધાઓ પ્રદાન કરી છે. એનાથી કોણ ઈનકાર કરી શકે છે? વિજ્ઞાને વાહનવ્યવહારના સુંદર સાધન, સારવારની ઉત્તમ સાધન સામગ્રી અને દવાઓ, કૃષિ અને ઉદ્યોગ વધારવાનાં ઉત્તમ મશીનો આપીને ઉપકાર કર્યા છે. વિજ્ઞાન આવશ્યક છે. પણ ધાર્મિક નિયંત્રણના અભાવમાં તેનાથી અપરાધ, ઉધ્ધતાઈ અને ભયાનકતાનો જ અધિક વિકાસ થયો છે.

જ્યારે એ વિશ્વાસ કરી લેવામાં આવે છે કે વિશ્વ રચનાની પ્રધાન ભૂમિકા કોઈક સમર્થ સત્તાના હાથમાં છે. જે આપણને જોવામાં આવતી નથી. પણ સ્વયં બધાને જોઈ શકે છે. અને તે કર્મ પ્રમાણે કર્મફળ પણ પ્રદાન કરે છે. ત્યારે મનુષ્ય અપરાધ નથી કરી શકતો. એટલા માટે જ ધર્મની મહત્તા અને આવશ્યકતા સર્વોપરી છે. વિજ્ઞાન ન ઈશ્વરને માને છે. ન ધર્મને અને ન કર્મફળને આવી દશામાં તે આપણને નિરંકુશ તથા સ્વછંદ જ બનાવી શકે છે. એક વૈજ્ઞાનિકની પ્રયોગશાળા તરફ નજર ધરીએ તો જ્યાં આપણા માટે પ્રાયોગિક પરિક્ષણો થાય છે. તેની યાતનાઓ અને નિર્દયતાને જોઈને તો એમ થાય કે તેનાં કરતાં અભાવગ્રસ્ત રહ્યાં હોત, તો ઘણું સારું હતું. આ બધું વિજ્ઞાનનાં વિકાસ માટે થઈ રહ્યું છે.

વિજ્ઞાને મનુષ્યની પરિસ્થિતિને સુધારી નથી, ગૂંચવી દીધી છે. સારવારના ક્ષેત્રમાં જ અનેક મહત્વપૂર્ણ શોધ થઈ છે. પણ જો મનુષ્યનો ભાવનાત્મક સ્તર વિકસિત ન હોય, તો તે સુવિધાઓ પ્રાણ લેનારી બની શકે છે.

આત્મસાધનાનું નામ અધ્યાત્મ છે. ચેતનાને કેવી રીતે ઉદ્વેગોથી બચાવી શકાય? કેવી રીતે તેને પ્રગતિના પથ પર અગ્રેસર થવાનો અવસર આપવામાં આવે? કેવી રીતે તેને બળવાન, પ્રખર અને શુદ્ધતાવાળી બનાવવામાં આવે? એ જ વિદ્યાનું નામ અધ્યાત્મ છે. તે વિજ્ઞાનથી કનિષ્ઠ નથી, વરિષ્ઠ છે. વિજ્ઞાને મનુષ્યને અગણિત સુવિધા અને સાધન આપ્યાં છે. પણ જો પદાર્થની જેમ જ ચેતનાની

પણ શોધ અને સાધના કરવામાં આવે તો આ જ ભવમાં સુખ, શાંતિ અને સમૃદ્ધિ પ્રાપ્ત કરી શકે. કોઈ કારણ નથી કે તે સામાન્ય પરિસ્થિતિઓ અને સિમિત સાધનોના સહારે પણ સ્વર્ગીય વાતાવરણમાં રહેવાનો આનંદ ન લઈ શકે.

વિજ્ઞાને ક્યારેય એ નથી કહ્યું કે ઈશ્વર નથી તેણે ફક્ત એટલું જ કહ્યું તેના અનુસંધાન પ્રક્રિયાની પકડમાં ઈશ્વર જેવી કોઈ સત્તા આવેલી નથી. ઇન્દ્રિય બોધના આધારે સૂક્ષ્મદર્શી ઉપકરણોની મદદથી પ્રયોગશાળામાં વૈજ્ઞાનિક અનુસંધાન ચાલે છે. એ કક્ષામાં જે કંઈ આવે છે તે જ વિજ્ઞાનનો પ્રતિપાદ્ય વિષય છે. તેની પોતાની નાની સીમા અને મર્યાદા છે. તેનાથી જેટલું કંઈ જ્ઞાન પકડમાં આવી શકે તેને જ પ્રસ્ફુરિત કરવાનો તેનો વિષય છે. તે મર્યાદામાં જો ઈશ્વર નથી આવ્યા તો તેનો અર્થ એ નથી કે તેનું અસ્તિત્વ જ નથી.

વિજ્ઞાન અને ધર્મ પરસ્પર વિરોધી નથી, લોકો વિજ્ઞાનને ધર્મનો શત્રુ માને છે. પણ વાત એમ નથી પરંતુ ઈશ્વર અને તેની અનાદિ સત્તાને શોધવા માટે આપણે હજી સુધી અંધકારમાં ફાંફા મારી રહ્યા છતાં. તેની તરફ જવા માટે યોગ્ય માર્ગ બનાવવાનું કાર્ય વિજ્ઞાન કરી રહ્યું છે. જ્યાં તે મૂળ સિધ્ધાંતોની રક્ષા કરે છે. તો પોકળ કાર્યક્રમોનું ખંડન પણ કરે છે. વિજ્ઞાન ઈશ્વરનાં તે અનેક સ્વરૂપોને નષ્ટ કરી દે છે. જે મનુષ્યોએ પોતાની સગવડ માટે બનાવ્યા છે. અને તેથી જ વિજ્ઞાન એ અધ્યાત્મનો ભાગ છે નહીં કે અધ્યાત્મ એ વિજ્ઞાનનો ભાગ છે.

વિશ્વરાજસિંહ એમ. સોલંકી

એફ.વાય.બી.એસસી.

## एक अंजानी चीज़ और हजार अपने लोग...

दूर हैं हम आज...  
बच्चों की हँसी से गूंजता आँगन  
सूना पड़ा है आज...  
रात को दुनिया भर की महफिल होती है  
वो चार रास्तों की चौकी,  
सूनी पड़ी है आज...  
छुट्टियाँ आते ही,  
भर जाती वो गोद नानी की  
थोड़ी खाली सी है आज...  
इधर की बात उधर और उधर की कहा और  
देखने को नहीं मिलता आज..  
ना रुकने चाली घंटी मंदिर की  
राह देख रही है आज...  
ना जाने अब कब  
खत्म होगा हमारा आज...

- देवांशी टेलर

એસ.વાય. બી.એસસી.(માઈક્રોબાયોલોજી)

## બ્રષ્ટાચાર – એક રાષ્ટ્રવ્યાપી કેન્સર

બ્રષ્ટાચાર એટલે પોતાના અંગત સ્વાર્થ માટે સાર્વજનિક શક્તિનો દુરુપયોગ. સરળ શબ્દોમાં કહીએ તો કોઈપણ વ્યક્તિ પોતાના અંગત લાભ માટે પોતાને મળેલ સત્તાનો ગેરુપયોગ કરે તે બ્રષ્ટાચાર છે. વિશ્વ બેંકે બ્રષ્ટાચાર શબ્દની વ્યાખ્યા આપતા કહ્યું છે કે “સાર્વજનિક હોદ્દાનો વ્યક્તિગત લાભ માટે ઉપયોગ એટલે બ્રષ્ટાચાર” બ્રષ્ટાચારમાં લાંચ-રુશ્વત, ભેટ-સોગાદ, છેતરપિંડી, પક્ષપાતી વલણ વગેરેનો સમાવેશ થાય છે.

બ્રષ્ટાચાર એ તમામ બુરાઈઓની જડ છે. બ્રષ્ટાચારના દાનવને ખતમ કર્યા વગર કોઈપણ વિકાસ યોજના પાર પાડી શકાય નહિ. કોઈપણ પ્રશ્નનો અસરકારક ઉકેલ આવી શકે નહિ. બ્રષ્ટાચાર એક એવો રોગ છે. જે રાષ્ટ્રને ધીમી-ધીમે વિનાશ અને બરબાદી તરફ લઈ જઈ રહ્યો છે. જો ભારત કે અન્ય રાષ્ટ્રને વિકસિત રાષ્ટ્રની હરોળમાં આવવું હશે તો બ્રષ્ટાચારરૂપી મહારોગ પર કાબુ મેળવવો જ રહ્યો. ટ્રાન્સપરન્સી ઈન્ટરનેશનલ નામની સંસ્થાએ (રીપોર્ટ-૨૦૧૮) ભારતને બ્રષ્ટાચારના ૧૮૮ દેશોમાંથી ૮૦ માં ક્રમે મુક્યો છે. મહાસત્તા બનવાનાં સ્વપ્ન સેવતાં ભારત માટે આ અત્યંત શરમજનક બાબત છે. બ્રષ્ટાચારી રાષ્ટ્રોમાં પાકિસ્તાન, બાંગ્લાદેશ, હૈતી, ઈરાક, મ્યાનમાર અને સોમાલિયા જેવા દેશોની હરોળથી ભારત માંડ પાંચ કદમ દૂર છે. વિશ્વ બેંકના અભ્યાસ અનુસાર ભારત જેવા વિકાસશીલ દેશોમાં દર વર્ષે ૪૦૦૦ અબજ રૂપિયા લાંચ પેટે ચુકવાય છે.

ટ્રાન્સપરન્સી ઈન્ટરનેશનલનો સર્વે કહે છે કે સરકારી કચેરીની મુલાકાતે આવતા ૫૨% લોકોએ પોતાનું કામ કઢાવવા લાંચ આપી હોવાનું સ્વીકાર્યું છે. ભારતીય અર્થતંત્રમાં કર (ટેક્સ) ચુકવવાની સામે ૧૦૦ ગણી કરચોરી થાય છે. બિહારમાં ૮૦% સહાય ગરીબો સુધી પહોંચતી જ નથી. ભારતમાં સૌથી વધુ બ્રષ્ટાચાર ટેન્ડરની ફાળવણીમાં થાય છે. બાંધકામમાં ખાસ કરીને રાષ્ટ્ર નિર્માણ માટેના મહત્વના પ્રોજેક્ટમાં બ્રષ્ટાચાર સૌથી વધુ થાય છે. બ્રષ્ટ અધિકારીઓ પોતાની સત્તાના દુરુપયોગ કરી કરોડો રૂપિયા મેળવે છે. અને રાષ્ટ્રને અબજો રૂપિયાનું નુકશાન કરાવે છે. મધ્યપ્રદેશના એક આઈ.પી.એસ. દંપતિ પાસેથી ૩૦૦ કરોડની બેનામી સંપત્તિ પકડાઈ હતી.

બ્રષ્ટાચારને કારણે જ વિકાસના કાર્યો થઈ શકતા નથી. અથવા જે કાર્યો થાય છે તે યોગ્ય રીતે થતા નથી. એ કાર્યોમાં ગુણવત્તાનો અભાવ જોવા મળે છે. માટે તે કામ માટે બીજી વાર નાણાં ફાળવવા પડે છે. પરિણામે દેશનો વિકાસ રૂંધાય છે. લોકોને સત્તાધારી વ્યક્તિ પરથી વિશ્વાસ પણ ઉઠી જાય છે. નોકરીમાં બ્રષ્ટાચાર થવાને કારણે યોગ્ય લાયક વ્યક્તિને તક નથી મળતી. અયોગ્ય વ્યક્તિ પોતાની લાગવગના જોરે ખુરશી પર બેસી દેશને નુકશાન જ પહોંચાડે છે. સામાજિક અરાજકતા ફેલાય છે. ભ્રષ્ટાચાર ભારતની અર્થ વ્યવસ્થા, સમાજ વ્યવસ્થા અને રાજ્ય વ્યવસ્થાને બરાબર ભરડામાં લીધી છે. બ્રષ્ટાચારને નાથવામા પ્રજા બહુ મોટા પ્રમાણમાં ફાળો આપી શકે છે. જો ભારતનો કોઈપણ નાગરિક પોતાના અંગત કામ માટે લાંચ આપે જ નહિ તો ! દરેક વ્યક્તિ કાયદાનું બરાબર પાલન કરતો થઈ જાય તો બ્રષ્ટાચાર આપોઆપ અટકી જાય. દરેક વ્યક્તિએ સંકુચિત સ્વાર્થવૃત્તિ છોડવાની જરૂર છે.

દેશને માટે ઉપયોગી નાગરિકો તૈયાર કરવાની જવાબદારી શિક્ષણક્ષેત્રના માથે છે. સાચી કેળવણી મેળવનારા કાબેલ વિદ્યાર્થીઓ જે રાષ્ટ્રની આશાનો અને આકાંક્ષાઓ પૂર્ણ કરવા માટે સમર્થ બને છે. પૂજ્ય ગાંધીજીનાં આ દેશમાં બ્રષ્ટાચાર દેશને હજુ વધુ નુકશાન પહોંચાડે, વધુ ફૂલેફાલે તે પહેલાં તેને મૂળમાંથી ઉખેડી નાખવા જ રહ્યા. બ્રષ્ટાચાર કોઈપણ દેશ માટે પ્લેગ, કેન્સર અને એઈડ્સથી પણ વધુ ગંભીર રોગ સમાન છે. સભ્ય સમાજનો સૌથી મોટો દુશ્મન છે. સૌથી મોટી અસામાજિક સમસ્યા છે. હવે આ મહામારી સામે જેહાદ જગાવવા એ જ સમયનો તકાજો છે.

ટૂંકમાં બ્રષ્ટાચારને નાથવા માટે એક અન્ના હજારે જ કાફી નથી. તેને નાથવા માટે દરેક વ્યક્તિએ આ યજ્ઞ કાર્યમાં સહયોગ આપવાનો છે. તો જ આપણે આ કાર્યમાં ફતેહ મેળવી શકીશું તો આવો મળીને કહીએ.

“બ્રષ્ટાચાર મુક્ત ભારત બનાવીએ”, ભવ્ય ભારતનું નવનિર્માણ કરીએ”

રોશની એન. ઝાલા  
એફ.વાય.બી.એસસી.

## भारतीय सेना – मेरा अभिमान

भारत का हर एक नागरिक भारतीय सेना पर सिर्फ गर्व ही नहीं अभिमान भी करता है। भारतीय सेना भारत की धड़कन है। भारतीय सेना कभी भी धर्म, जाति का भेदभाव नहीं करती। भारतीय सेना एकता का प्रतिक है।

जब तक भारतीय सेना का जवान भारत की सरहद पर डटा है तब तक किसी की हिंमत नहीं की भारतमाता की ओर आँख उठाकर देखे। भारतीय सेना का दम देखकर भारत का हर एक दुश्मन कांपता है। हमारी भारतीय सेना जिसमें वायुसेना, थलसेना, नौ सेना का हर एक सैनिक भारतमाता के लिए मरना और मिटना दोनों जानता है। इस वाक्य से एक भारतीय सैनिक की आवाज कान में गूंजती है। और वो आवाज हमारे भारतीय सेना के फील्ड मार्शल सैम मानेक साँ की है।

अगर कोई कहता है कि मरने से नहीं डरता तो वो झूठ बोल रहा है या फिर वो भारतीय सेना का सैनिक है!

आज अगर हम अपने घर में चैन की नींद ले पा रहे हैं तो वो सिर्फ हमारे भारतीय सेना के बलिदान और शहादत की वजह से ही ले पा रहे हैं। उन वीर सपूतों की वजह से जिन्होंने भारतमाता के लिए अपने प्राण न्योछावर कर दिये। भारतीय सेना बलिदान देने में कभी पीछे नहीं हटती। भारत देशने पुलवामा, उरी जैसे हमले भी देखे हैं। और भारतीय सेना द्वारा उन हमलों का मुंहतोड़ जवाब भी दिया जाता है।

भारतीय सेना का एक ऐसा भी बलिदान जो शायद सभी भारतवासी नहीं जानते। एक ऐसा बलिदान जिसमें भारत देश ने अपने ५४ वीरो को खो दिया। वो कहाँ गए उसका कुछ पता भी नहीं चला। आज उनके जिंदा होने की उम्मीद तो बहुत कम है और शायद कोई जिंदा होगा तो भी पाकिस्तान की जेल में बहुत ही खराब अवस्था में होगा। ये बलिदान सन् १९७१ के भारत-पाकिस्तान युद्ध के दौरान भारतीय सेना के वीर सपूतों ने दिया था। इस बलिदान का ऋण कभी नहीं चुकाया जा सकता और इसी लिए भारतीय सेना के शहीदों की याद में राजधानी दिल्ली में अमर जवान स्मारक पर उन वीर सपूतों की शौर्य की अग्नि हमेशा प्रज्वलित रहती है।

जब जब भारत के संविधान को चौट पहोंचाने की हिम्मत किसी ने भी की है तो उसे भारतीय सेना का मुंहतोड़ जवाब मिला ही है। भारतीय सेना हमेशा संयम से काम लेती है। भारतीय सेना दुश्मन को भी सुधरने का मौका देती है। भारतीय सेना दुश्मनों को सिर्फ एक ही संदेश देती है कि उनके (भारतीय सेना के) संयम की परीक्षा न करे।

भारतीय सेना का संदेश हमेशा याद रखना आतंकियों को माफ करना इश्वर का काम हो सकता है लेकिन उनको भगवान से मिलान करवाने का काम भारतीय सेना का है।

भारतीय सेना किसी भी मुसीबत में हमेशा मदद करने के लिए आगे रहती है। वो मुसीबत चाहे मानवनिर्मित हो, कुदरती हो या फिर दुश्मनों को सुधारना ही क्यों न हो। आखिर में एक बार फिर से पूरे गर्व से साथ कहती हूँ।

भारतीय सेना-मेरा अभिमान। !! जय हिन्द की सेना !!

फार्मर दीपाली आर.

अस.वाय.बी.अससी.

## जिंदगी उनकी भी अनमोल है

आसमान के कुछ पंखी हो  
या समुंदर की कोई मछली हो  
जंगल में रहता शेर हो  
या रेगिस्तान का ऊँट हो,

जरूरत सब की एक हैं,  
जिंदगी उनकी भी अनमोल है।

पेड़, पौधे, लता या घास,  
रंग सबके एक हैं,  
ये जिंदगी उनकी देन हैं,  
जिनके बन चुके हम दुश्मन है।

सांझ सवेरा धूप और छाँव,  
हर रोज़ जिसे हम जीते हैं,  
जीवन की पहली साँस और  
दुनिया में आखरी नींद भी,  
हम उसी की गोद में लेते हैं।

जीवन जिनके साथ हैं,  
हम बन चुके उनकी मौत है,  
माफ़ कर ए खुदा हमें तू,  
ये गुनाह ना नादान हैं,  
फिर भी हम तेरी ही संतान हैं,

गुजारिश सुन के तू हमारी,  
हमें एक मौका और दे, क्योंकि,  
अब समझ चुके हम भी ये,  
जिंदगी उनकी भी अनमोल है।

**वर्षा मकवाणा**

अस.वाय. बी.एससी.(माइक्रोबायोलोजी)

## याद है ...

नये घर में जाने के लिए  
कभी ना देखा रास्ता देखा...याद है...  
पड़ोस किसी की जोईन फेमिली  
पहेली बार देख के मुस्कराना...याद है...  
नन्हें परों से  
वहाँ कदम रखना ...याद है...  
जिंदगी के पहले दोस्त  
वहाँ कैसे मिले ...याद है...  
स्कूल खत्म और कॉलेज  
के लिए उस घर को छोड़ना...याद है...  
मम्मी की मार और पापा का प्यार  
छोटे भाई से झगड़ा और दादी का नुस्खा...याद है...  
अब इस घर को छोड़के  
नये घर खोजने की वजह...याद है...  
लेकिन इस घर को भुल जाना  
थोड़ा हावी है...

**देवांशी टेलर**

अस.वाय. बी.एससी. (माइक्रोबायोलोजी)

## काश जिंदगी एक किताब होती...

काश, जिंदगी एक किताब होती  
जिसके पन्ने मैं पढ़ पाती  
जहाँ मैं अपने आप को देख पाती  
जहाँ मैं अपनी खुशियों को  
गले लगा के चूम पाती

काश, जिंदगी एक किताब होती।

दिल करे तब ठहर के  
एक चाय की चुस्की ले पाती  
फिर उसी मोड़ से जिंदगी के  
आगे रास्ता मे पढ़ पाती,

काश, जिंदगी एक किताब होती।

काश, खुशियाँ से समेट पाती  
गमो को ठहर के देख पाती  
लम्हो को बार-बार में जी पाती  
किसी एक मोड़ पे थोड़ा रुक पाती

काश, जिंदगी एक किताब होती।

बचपन फिर से दोहरा पाती  
गिर के भी मैं फिर हस पाती  
बिना चाह के मैं जी पाती  
बिना कारण मैं मुस्कुराती

काश, जिंदगी एक किताब होती।

**चामीं जे. प्रजापति**

बी.एससी.(केमेस्ट्री)

## फेयरवेल क्यों आता है ?

आखिर ये फेयरवेल क्यों आता हैं ?  
क्यों वो नि दाम से फिसल जाते हैं ?  
क्यों उन दोस्तो को अलविदा कहना पड़ता है ?  
क्यों वो मस्ती पीछे छूट जाती है ?  
आखिर ये फेयरवेल क्यों आता हैं ?

अभी-अभी तो खत्म हुआ था स्कूल मेरा,  
अभी-अभी तो शुरू हुआ था कॉलेज मेरा,  
छूटे थे कुछ हाथ वहा पर  
मिल गये कुछ साथ यहाँ पर।

अभी-अभी तो जाना था,  
जिंदगी कैसे जीते है,  
कुछ लम्हे जीने बाकी है,  
लम्बा सफर भी तय करना है,

कैसे भुले उनको  
दिन शुरू जिनसे होता था,  
कैसे छोड़े उनको  
जो सपनों मे भी आते थे।

तीन साल बीते कुछ ऐसे,  
तीन दिन की चांदनी हो जैसे,  
तीन अक्षर का बाय  
बोले अब हम कैसे ??

**वर्षा मकवाणा**

अस.वाय. बी.एससी.(माइक्रोबायोलोजी)

## संविधान

अखंड हमारा देश हैं,  
देशवासी भी अखंड है,  
अखंड मातृभूमि की,  
शान संविधान है।

आन है ये मान हैं,  
हमारा अभिमान हैं,  
हमारा संविधान ही,  
हमारी पहचान हैं।

हम एक हैं अनेक में,  
नदीयों का बना सागर ये हैं,  
बड़े हुए है ज्ञाति में  
धर्म संविधान हैं।

ना छोटा है कोई बड़ा भी ना  
सब की एक ही पहचान हैं,  
हमारा संविधान ही  
हमारी आन, बान, शान हे।

ये न्याय हैं, ये हक भी हैं,  
ये कानून हैं, कर्तव्य भी,  
स्वराज्य हैं अधिकार भी,  
भारत की ये जान है,  
हमारा संविधान ही,  
तिरंगे की पहचान हैं।

## वर्षा मकवाणा

अस.वाय. बी.अससी.(माइक्रोबायोलोजी)

## एक नए शुरुआत...

जो चीज हमारी नहीं है उसे खोने का डर कैसा ???

और

जो चीज मेरी ही है.. उसे खोने का डर कैसा !!!

जो हमारा है वो हमारा ही रहेगा... और जो हमारा

है हि नहि तो कभी हमारा था हि नहि...

जिन्दगी में जो कुछ भी होता है.. वो किसी ना किसी वजह से होता है.. क्यों ना कहा हम है..

वहिं से नई शुरुआत करे... आगे बढ़े....

क्यों हम सब दुसरो को नीचा दिखाने में लगे रहते है...

दुसरो पर सोचते है... उतना वक्त हम अपने आप को देते तो सोचो कितना आगे बढ़ जायेंगे...

फालतु समय बर्बाद करने से अच्छा है... अपने

आप को पहचानों बहुत कुछ कर सकते है हम...

परंतु ऐसा तभी हो सकता है... जब लोग दुसरो से ज्यादा अपने बारे में सोचेंगे...

अकेले है तो क्या गम हैं... अकेले है तो क्या गम हैं...

हमारे साथ हम खुद है... तो हमें क्या डर है..

चलो एक नई शुरुआत करते हैं...

लाइफ में हमेशा कुछ नया करो.. कुछ नया सोचो...

कुछ ऐसा करो की कोई सोच भी ना सके...

बहुत कुछ है.. लाइफ में करने के लिए...

वक्त कम है और हार्डवर्क ज्यादा...

आओ हम भी कुछ बनते है.. कुछ नया करते है...

अपने आप को पहचानते हैं... एक नई शुरुआत करते हैं...

आओ हम सब मीलकर एक नई शुरुआत करते है...

रीया गोहेल

अस.वाय. बी.अससी.

## अल्फाज अशकों के

मैं एक बूँद हूँ, मैं एक बूँद हूँ।  
जिसे हर वक्त दुःख और गम में देखा जाता है।  
क्योंकि खुशियों के वक्त हमें अक्सर भुला दिया जाता है।  
आज भी कुछ ऐसा ही हुआ है।  
कब से मैं इन आँखों के कोनो पर हूँ।  
पर मेरी दोस्त मुझे बहाना ही नहीं चाहती है।  
मैं जानती हूँ, ये दुनिया से उसे बहुत दर्द दे रही है।  
मैं देख रही हूँ, वो बहुत अकेली है।  
उसका दिल टूट चुका है, उम्मीदें बिखर चुकी हैं।  
वो बेसहारा महसूस कर रही है।  
शायद अपने सुकुन के लिए वो मुझे याद कर रही है।  
पर वो डरती है, क्योंकि वो जानती है कि लोगों की  
भीड़ में इस कमजोरी का नाम दे दिया जायेगा।  
पर मुझे फर्क नहीं पड़ता क्योंकि मैं जानती हूँ कि  
मैं उसके लिए सिर्फ एक बूँद नहीं हूँ पर,  
एक मोती हूँ, एक दोस्त हूँ  
एक सुकुन हूँ, एक ठंडक हूँ  
एक शांति हूँ, एक भाषा हूँ  
क्योंकि उसने मुझे ये एहसास करवाया है।  
वरना दुनिया ने तो मुझे हर बार झूठा ठहराया है।  
मैं सोच रही हूँ किस बस अब यह जाऊँ पर,  
वो मुझे बहाना नहीं चाहती है।  
मैं इंतजार कर रही हूँ कि कब मैं इन आँखों के  
कोनो से बहकर मिट्टी में मिल जाऊँ  
क्योंकि मैं जानती हूँ कि मिट्टी में मिलकर मैं  
अपना वजूद खो रही हूँ, पर मैं उसे एक सुकुन  
और उम्मीद दे कर जा रही हूँ।

मानसी डी. बलवा

अफ.वाय.बी.एससी.

## औरत के रूप

जब जन्मी बाबुल के अंगना  
बेटी कह धिक्कार दिया  
बोझ, नालायक और कलंकिनी  
जाने क्या क्या नाम दिया  
मैं रो रो कर यही पूछती हूँ।  
क्यों ना बेटों सा अधिकार दिया

जब मैं बनी किसी की दुल्हन  
पांव की जूती कह नाकार दिया  
दहेज प्रथा के नाम पर मुझे  
जलती आग में डाल दिया।  
मैं रो रो कर यही पूछती हूँ।  
क्यों ना पत्नी – सा सन्मान दिया।

जब जन्म दिया बेटे को  
माँ रूपधार लिया  
कुछ ना सोचा, कुछ ना समझा  
सब कुछ अपना बार दिया  
बडा हुआ तो उसी बेटे ने  
घर से है निकाल दिया  
मैं रो रो कर यही पूछती हूँ  
क्यों ना मा सा मुझको प्यार दिया।

वृतांशी पटेल

अस.वाय.बी.एससी.(केमेस्ट्री)

## यादें

नन्हे कदम, नन्हे से हाथ  
आसुँ भरी आँखों में, बड़े बड़े थे ख्वाब,  
पहली कक्षा का पहला दिन,  
अंजान लोगों में तन्हा सा दिल,

याद कब उसे आज हसी आती है,  
साथ ही उसके आँखें नम हो जाती है  
आज कल परसों करते बारवी आ गई,  
आगे कदम बढ़ते याद पीछे रह गई।

याद कर उस यारी को,  
आँखें भर आती है,  
उनकी वो अटपटी बातें,  
आज भी हंसाती हैं,  
अभी भी उनकी बड़ी याद आती है।

टीचर के वो नाम रखना,  
होमवर्क ना करना,  
ब्रेक में डिब्बे पास होना,  
एक पेकेट पे टूट पड़ना  
परीक्षा की तैयारी साथ करना,  
एक दुसरे को चिढ़ाना  
रुलाके फिर हँसाना,

अब सब याद आता है,  
वापस जाने का मन होता है  
फिरसे मार खानी है,  
पी.टी. का मजा लेना है  
स्कूल की वो यादें  
आज भी याद आती है।

### वर्षा मकवाणा

अस.वाय.बी.अससी.(माईक्रोबायोलोजी)

## मुझे याद करना

यूँ तो बहुत दोस्त होंगे तुम्हारे  
पर कभी अपनी सुनानी हो तो मुझे याद करना;  
बहुत हँसते होंगे लोग तुम पर  
कभी दुसरो पे हंसना हो तो मुझे याद करना;  
मैंने कई लोग देखे हैं रोते अकेले,  
कभी रोने को कंधा चाहिए तो मुझे याद करना;  
सूरत से लाखों देखें हैं चाहने वाले,  
अगर सीरत वाला प्यार करना हो तो मुझे याद करना;  
ढलती हुई रात में पीने वाले कई होते हैं  
कभी शाम को चाय पीनी हो तो मुझे याद करना;  
माना तेरी मुस्कुराहट को तरसते होंगे कई  
पर अपने आंसु दीखाने का मन करे तो मुझे याद करना;  
सब बातें करते हैं तारों के शहर की,  
पर कभी खुद की जिन्दगी को रोशन करना तो मुझे याद करना;  
माना तुझे हवेली पे रखने के काबील नहीं,  
पर गिर जाने पे किसी का हाथ पकड़ना हो तो मुझे याद करना;  
हा माना नहीं आता हूँगा सपनों में तेरे;  
पर कभी सपने पुरे करने हो तो मुझे याद करना

प्रणव जी. जोशी

टी.वाय.बी.अससी

# Students' Central Committee 2020-2021



**Dr. Bhavesh Patel**  
Principal and President



**Mr. R. H. Sadhu**  
Vice- President



**Ms. Palak H. Ranjiwala**  
General Secretary



**Mr. K. C. Raval**  
Ex-Officio  
Cultural Club



**Mr. L. K. Chauhan**  
Ex-Officio  
Fine Arts Club



**Dr. T. H. Patel**  
Ex-Officio  
Science Club



**Ms. M. K. Patel**  
Ex-Officio  
Nature Club



**Mr. H. B. Madhwani**  
Ex-Officio  
Debate Club



**Dr. A. R. Jivani**  
Ex-Officio  
Literary Club



**Mr. C. R. Gurjar**  
Ex-Officio  
Literary Club



**Dr. J. K. Chauhan**  
Ex-Officio  
Sports Club



**Mr. A. K. Patel**  
NSS Officer



**Dr. Rajiv Z. Bhatti**  
NSS Officer



**Maj. M. M. Morekar**  
NCC Officer



**Mr. Chintan Panchal**  
Student Secretary  
Cultural Club



**Mr. Pranavkumar Joshi**  
Student Secretary  
Fine Arts Club



**Ms. Priyank Bhoi**  
Student Secretary  
Science Club



**Ms. Hasmita Patel**  
Student Secretary  
Nature Club



**Mr. Ranchhor Gumanisingh**  
Student Secretary  
Debate Club



**Ms. Priya Vyas**  
Student Secretary  
Literary Club



**Mr. Deep Khambholja**  
Student Secretary  
Sports Club - Boys



**Ms. Mansi Makwana**  
Student Secretary  
Sports Club - Girls



**Mr. Gaurav Valand**  
Student Secretary  
NSS - Boys



**Ms. Mansi Hadiya**  
Student Secretary  
NSS - Girls

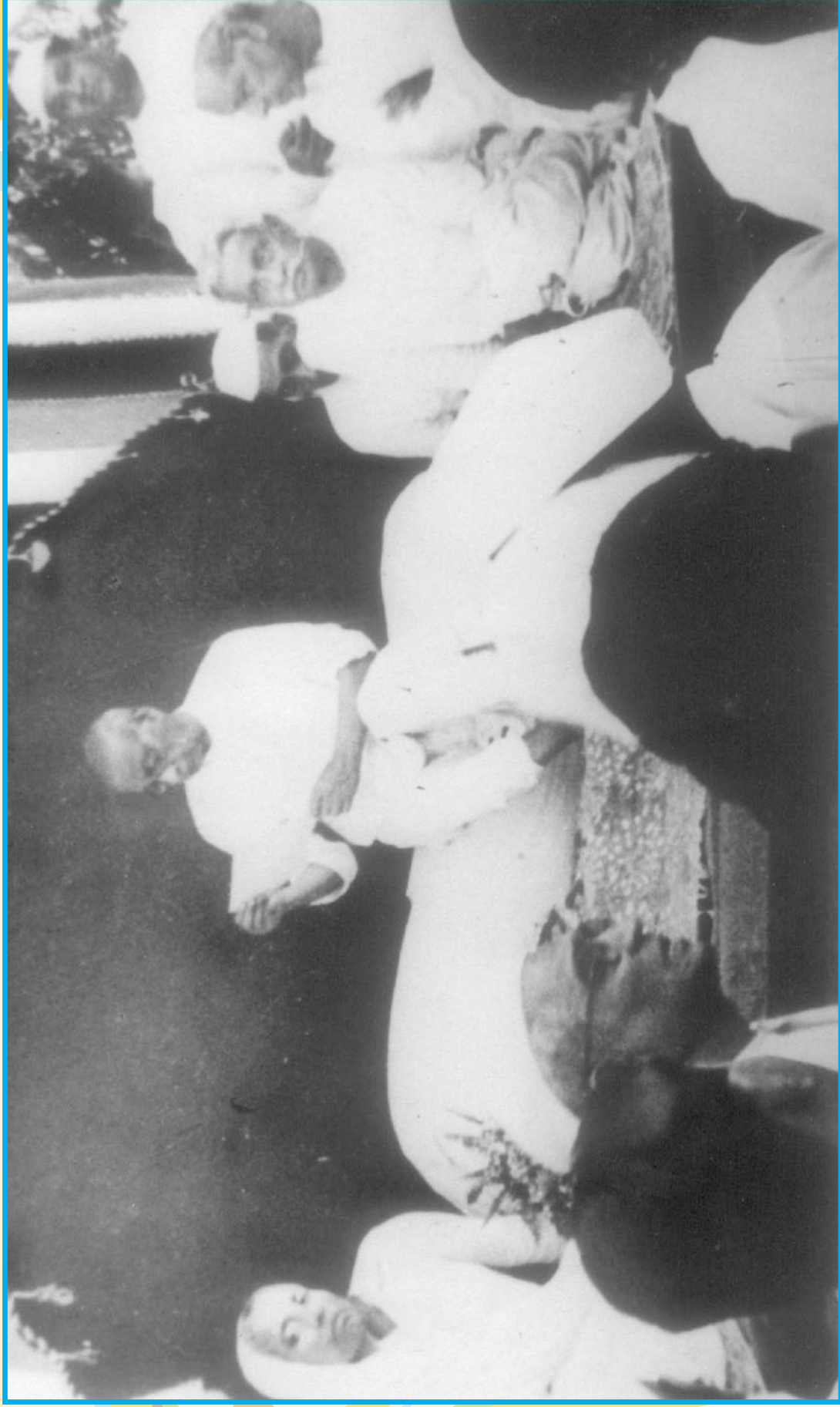


**Mr. Rohan Bhatt**  
Student Secretary  
NCC - Boys



**Ms. Priya Ronny**  
Student Secretary  
NCC - Girls

**Vitthalbhai Patel & Rajratna P. T. Patel Science College**  
*Platinum Jubilee Year 1947 - 2022*



**Inauguration of the College by Sardar Vallabhbhai Patel in 1947**



# KNOWLEDGE CONSORTIUM OF GUJARAT

आ नो भद्राः क्रतवो यन्तु विश्वतः

Department of Education, Government of Gujarat

## Certification of Accreditation

*Knowledge Consortium of Gujarat*

*On the recommendation of the duly appointed*

*Peer Team is pleased to declare the*

***V.P & R.P.T.P.Science College, Vallabh Vidhyanagar.***

*As Accredited*

*With CGPA 3.28*

*As per NAAC criteria*

*At Grade A+*

*Valid up to February 06, 2022*

February 19, 2019



ADVISOR,  
KCG

Opp.P.R.L., B/h. L.D. Engineering College, Navrangpura, Ahmedabad, Gujarat, India  
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# V. P. & R. P. T. P. SCIENCE COLLEGE



## Mission:

We dedicate ourselves to the continuation of our founders' vision of scholastically uplifting rural youth along with value education to prepare globally competitive citizens who contribute towards nation building.

## Vision:

To educate, empower and prepare globally competitive human resource through knowledge, employability, entrepreneurship skills by creating an environment conducive to learning and research in sciences, and critical thinking there by leading to creation of a strong institution through close affinity with its alumni.

## Goals:

- To create and nourish a stimulating learning environment that ensures a globally relevant education, based on eternal human values.
- To forge and reward excellence in the curricular as well as extra-curricular sectors so as to ensure the scholars' global competitiveness.
- To tap, nurture and unleash the innovative entrepreneurial abilities of scholars and thereby ensuring lifelong socio-economic value- addition.
- To evoke and embellish the finest traits of human excellence that can dovetail into a sustainable career growth curve.
- To affiliate, associate, liaise or otherwise synergize with any institution body, entity, ethno-cultural Diaspora and the overall global fraternity in any form whatsoever, in support of the above.
- To initiate, consolidate and extrapolate any objectives, function and activities in support of the above.



## V. P. & R. P T. P. SCIENCE COLLEGE

(Managed by Charutar Vidya Mandal)

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