

Amrut Mahotsav 2021-22



Charutar Vidya Mandal's

V. P. & R. P. T. P. Science College

Vallabh Vidyanagar - 388 120

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



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.

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.

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.



Various Committees



IQAC CELL



COUNSELLING & PARENT CELL



LIBRARY ADVISORY COMMITTEE



**WEBSITE, INTERNET & COMPUTER
WORK COMMITTEE**



RESEARCH CELL



TRAINING AND PLACEMENT CELL



EQUAL OPPORTUNITY CELL



ALUMNI ASSOCIATION



WOMENS DEVELOPMENT CELL



EXAMINATION COMMITTEE



TIME TABLE COMMITTEE



**STUDENT GRIEVANCE
REDRESSAL COMMITTEE**



**PROSPECTUS & A. Y. CALENDER
COMMITTEE**



DISCIPLINE COMMITTEE



**PERSONALITY DEVELOPMENT
PROGRAMME**

Various Committees



**INTERNAL COMPLAINT
COMMITTEE (ICC)**



HOSTEL (GIRLS) & L.R



**COACHING FOR ENTRY
INTO SERVICES**



ADD ON CERTIFICATE COURSES



SPORTS CLUB

Various Departments

Microbiology Department



Various Departments

Chemistry Department



Various Departments

Physics Department



Maths Department



Activities of the Clubs 2021-22

Debate Club



Activities of the Clubs 2021-22



Cultural Club



VPM IAS Study Club

Activities of the Clubs 2020-21



Fine Arts Club



Nature Club

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

VALLABH VIDYANAGAR

Amrut Mahotsav 2021-22

(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. Yogesh. B. Vadwala (Chemistry Dept.)

EDITORIAL BOARD

Dr. P. M. Patel (Industrial Chem. Dept.)

Dr. Charudutt. R. Gurjar (Chemistry Dept.)

STUDENT MEMBER

Mr. Raj. M. Patel (Student 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

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



KNOWLEDGE CONSORTIUM OF GUJARAT

आ नो भद्राः क्रान्तो यन्तु विवशः

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

C O N T E N T S

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Message From The Editors



The college has completed 75 years of glorious journey. Bhaikaka, the 'Vishvakarma' of the campus set up this college first in this campus. To get admission in engineering it was required to pass pre-science, this was the concept to start the science college first in the campus. In the initial stage, Charutar Vidya Mandal was facing the shortage of money and non-cooperation of the British government to supply cement etc., Bhaikaka built such a huge building of the college which is today's surprise for everyone. Sardar Patel inaugurated this college. Many eminent personalities, like Sir C. V. Raman, Jay Prakash Narayan, Dr. Vikram Sarabhai, Sir G. S. Bajpai, Vihari Mehta, Dr. H. M. Patel, Prof. E. V. Chitnis, Prof. D. S. Kothari, Prof. K. S. Krishnan and several others have invited as a Chief Guest on Annual Days.

A College magazine is an eloquent expression of the progress and outstanding achievements that a department has to its credit. It's a manual that highlights the quality of education and extra-curricular activities that a department undertakes to develop the all-round personality of the students. I heartily congratulate all those who have taken pains to bring out this magazine adding a glorifying and colorful petal to a wonderful flower called **"AMRUT MAHOTSAV"** (2021–2022).

I am very happy to put forward the College Annual Magazine **"AMRUT MAHOTSAV"** of the year 2021–2022. At the end of every year we publish our college magazine which is really a creative document of the talents of our college students. It provides a platform to young students to show their talents in creative writing. The reports of our college activities and achievements published in the magazine reflect the talent of the students in various fields. The magazine also reflects the college activities like academic, literary, sports, fine-arts, Science, cultural, NCC, NSS etc. and achievements of the students in various fields.

I thank Dr. Bhaveshbhai Patel for giving me the opportunity to publish this college magazine. I also thank all the members of the college magazine editorial team, staff members of the college for their constant help and direct and indirect support to publish the magazine. How can I forget support of the student team? I congratulate the participant authors who submitted their articles. The few selected articles by the team published in the magazine. I also extend my special thanks to Anurag Pandey for his tireless work.

"I extend warm wishes to all our readers."

Dr. R. H. Parab
(Editor & Ex-officio)
Literary Club

Dr. Yogesh Vadwala
(Co-editor)
Literary Club

From The Chairman's Desk



Er. Bhikhubhai B. Patel
CHAIRMAN



CHARUTAR VIDYA MANDAL

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MESSAGE

What a special occasion this is! As we commemorate the 75th Anniversary (*Platinum Jubilee*) of our V. P. & R. P. T. P. Science College. This is indeed a time for congratulations - a time to commend all the faculty and staff members who have worked so diligently over the years to develop this college into an essential element of our University. Time to applaud the many alumni who proudly identify themselves as V. P. & R. P. T. P. Science College Graduates - they serve as positive proof of the college continuing success.

I wish that all students should read the message of Late Sardar Patel depicted on the front entrance of this college. It is in the words of Sardar Patel spoken during the opening ceremony of the college.

It is a matter of pride for me to know of the Publication of our College Magazine for the Year 2021-2022. Creative writing is a very rare art. So, it is indeed a great pleasure to see that many students have contributed to this magazine. The college magazine is a good platform for students to express their talent. This kind of activity is necessary especially for science students because science can promise us 'truth' but not 'peace and happiness'. For inculcating values in our students we will have to turn to humanity. I have found that this magazine is one step in that direction. My best wishes to all...

"I congratulate the Principal, the Staff & Students of V.P & R.P.T.P. Science College for bringing out this Magazine Because (Each time we Read, a Seed is sown for future)."


Er. Bhikhubhai Patel
Chairman
Charutar Vidya Mandal

From Vice-President Desk



MANISHBHAI S. PATEL
VICE-PRESIDENT



CHARUTAR VIDYA MANDAL

P. B. NO. 22 VALLABH VIDYANAGAR-388 120 GUJARAT INDIA
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MESSAGE

I always get delighted with something that opens up the wings of creative ideas of the students, be it be sports, singing, painting, speaking, presentation of research work or pen-down a few meaningful words on paper. Your college magazine that is being published must have provided such gliding opportunity to the students and the faculties.

It gives me immense pleasure to see the college magazine of CVM's oldest college. This is a good tradition because in the present scenario when very few students really take up writing. I am happy to see that the college provides opportunities to students to express themselves through the magazine and to participate in various activities which help them to discover their own potential, strengths and weaknesses. This awareness is very important for students when they go into the world after finishing their studies. They can take up a profession that suits their skills and can become successful. My congratulations to the whole magazine team for this effort. My best wishes to all the students for their future.

Manish Patel
Vice President
Charutar Vidya Mandal

From The Hon. Secretary's Desk



CHAIRMAN
HON. SECRETARY

ER. BHIKHUBHAI B. PATEL
DR. BHANTIBHAI G. PATEL



CHARUTAR VIDYA MANDAL

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MESSAGE

It is my pleasure to take note that vibrant team of college is gearing-up to celebrate the 75th anniversary (*Platinum Jubilee*) of the V. P. & R. P. T. P. Science College. As I think about the future of the college, it is always bright. I want to appreciate the faculty and staff, who over the last seven decades have taken the college to new heights by adding and adapting the college's academic programs to the needs of the workforce and the economy. This amazing team has delivered and will continue to deliver even more!

The V. P. & R. P. T. P. Science College was established in 1947. I feel proud to be an alumnus of one of the oldest colleges of Gujarat which was inaugurated by none other than 'The Iron man of India'. I feel happy that so many students are submitting articles on a variety of topics. I am delighted with this practice of the college magazine which reflects all of the college activities and gives the students an open space to express their thoughts. I congratulate **Mr. Piyush Lashkari** and his truly capable team that devoted their time to bring out this edition. I hope that this practice will continue with an even better and broader range of articles. I give my best wishes to all....

"I congratulate the Principal, the magazine committee and the faculty members for this issue."


Dr. S. G. Patel
Hon. Secretary
Charutar Vidya Mandal
5/03/22

From The Hon.Jt. Secretary's Desk



CHAIRMAN : ER. BHIKHUBHAI B. PATEL
HON. SECRETARY : DR. SHANTIBHAI G. PATEL



CHARUTAR VIDYA MANDAL

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MESSAGE

It is a matter of immense pride and happiness as we bring out this edition of the college magazine. The magazine gives a platform to students to express themselves on various topics. I am very happy that more than a hundred articles have been contributed by students, faculties and research scholars. I would like to focus on the challenges that lie ahead. We would like to make this college a College of Excellence. We are of course on the right path but we cannot afford to be complacent and must continue our efforts in the right direction.

It gives me immense pleasure to see the college magazine of CVM's oldest college. This is good tradition because in the present scenario when very few students really take up writing I am happy to see that the college provides opportunities to students to express themselves through the magazine and to participate in various activities which help them to discover their own potential, strengths and weaknesses. This awareness is very important for students when they go into the world after finishing their studies. They can take up a profession that suits their skill sets and can become successful. My congratulations to the whole magazine team for this effort. My Best Wishes to all the Students for their future.

In the end I would like to quote

"A person who is on the top has the habit of getting to the bottom"

Ramesh Talati
Hon. Jt. Secretary
Charutar Vidya Mandal

Message From The Principal's Desk



One statement shall make the happiest person sad but the same statement shall make the saddest person happy. What's that statement! {“यह वक्त भी गुजर जायेगा!”} Year 2021 was no doubt, a difficult year for humanity across the world. It will remain in our memories for decades, the memory of staying at home 24×7, the memory of wearing a mask, the memory of all activities ranging from shopping, studying, examination, celebrating birthdays, farewell, annual day etc. online. Of course, there would be some good memories as well like reduction in air and water pollution. The statement quoted above, gave all of us the energy to fight with the pandemic and well most won the battle by March 2021. At times when we experience an unprecedented situation which is beyond our control, we feel shocked, fearful or helpless. If one understands that these emotions are normal, it will make us emotionally and spiritually empowered. This is the time to rejuvenate and bounce back with double the energy and enthusiasm to fight against this enemy.

For Three-Quarters of a century, the V. P. & R. P. T. P. Science College has steadfast. The college has completed 75th glorious years since its inauguration in 1947 by the great Sardar Patel. Today, with 2,000 students eagerly pursuing degrees within its classrooms and labs, the College has never been more relevant or more recognized. So, let us celebrate its past with great respect and look forward to its future with great enthusiasm.

I am extremely happy that our V.P. & R.P.T.P. Science College is Completing 75th years of Excellence and bringing out the College Magazine “**AMRUT MAHOTSAV**” 2021–2022. The magazine always provides a platform for the staff and students to showcase their talents and achievements. I extend my hearty Congratulations to the staff and students of our college for their efforts in bringing out the College Magazine “AMRUT MAHOTSAV” 2021–2022.

“I take this Opportunity to congratulate the Gold Medal winning students and the College Faculty and hope that in future too we will continue the Good Work”

I would like to show my appreciation to Dr. R.H. Parab, Dr. Yogesh Vadwala and team members for their efforts to publish this edition of the college magazine.

My best wishes to all the students' for your future.

Shri Piyush Lashkari

(I/c.Principal)

Message From The Vice President's Desk



V.P. & R.P.T.P. Science College is a premier institute of this campus. Vitthalbhai Patel, the elder brother of Sardar Patel who was a great patriot of India. He was the FIRST INDIAN to become the President of the Parliament in the British regime.

I wish that the students of the college take lessons from the above facts, be good citizen and use the knowledge they get here to enhance the prestige of the college. Nurturing creativity and inspiring innovation are two of the key elements of a successful education, and a college magazine is the perfect amalgamation of both. It harnesses the creative energies of the Academic Community and distils the essence of their inspired imagination in the most brilliant way possible. Hence, I am delighted to know that our College Magazine "**AMRUT MAHOTSAV**" 2021–2022 is ready for publication.

Academic progress is of utmost importance in a student's life. But overall development of personality is also equally important. It adds another dimension to one's personality and makes him/her even more dynamic. I am happy that this year I was given the opportunity to get associated with such extra-curricular activities. The year has been quite eventful as many activities were undertaken under the students' central committee. The gems of our college have shown their talent in almost every field, may it be Sports, Music, Dance, Drama,, Literary, Debate, Science, Community Services like NCC, NSS or any other such activities and bagged many prizes at various competitions organized by colleges. Bringing out college magazine is yet another such activity which provides a platform to students to come out with their creativity.

I am happy to see that our budding writers have really shown their worth and contributed with enthusiasm to this magazine.

"I congratulate them all and wish them success for their future endeavors"

Dr. P. M. Patel

(Vice – President)

Student Central Committee

Message From The Student Secretary



V.P. & R.P.T.P SCIENCE College, Vallabh Vidyanagar has been a crucial platform in the career building of thousands of student. Reputed for its high standards in science education, the college is continuously appreciated for publishing college magazine every year.

Our college magazine kindles the imagination of our learners. In today's world, it is not just about creating a literate mass but equipping student with life skills, communication skills, effective speaking skills, and writing skills.

I am so happy that students have contributed to create this precious magazine. I am grateful to Dr. R. H. Parab and for giving me this opportunity. I am also thankful to all the faculty members, committee members and all the students for their co-operation. I also extend my thanks to Anurag Pandey for his great help.

“Imagination is more important than knowledge. For knowledge is limited to all we now know and understand, while imagination embraces the entire world, and all there ever will be to know and understand.” –Albert Einstein

“The mind is not a vessel to be filled, but a fire to be kindled.”

I feel so glad to contribute as the student secretary for the year 2020-2021.

Raj M. Patel

Student Secretary

Profile of the college

It was the great Sardar Patel who originally floated the idea of bringing education to this rural hinterland and inspired stalwarts like Bhaikaka and Bhikakaka to start this unique educational endeavour. It was due to the missionary zeal of Bhaikaka and Bhikhakaka, the founders of Charutar Vidya Mandal in 1946, when contrary to general belief that institutions of higher education can come up only in cities, the rural, dusty, underdeveloped Vallabh Vidyanagar's first college, Vitthalbhai's Patel Mahavidyalaya came into existence in 1947.

VP & RPTP Science College was the first institution to be set up in 1947 in this township, aptly called Vidyanagar. Since then it has not looked back and has gone from strength to strength catering to the educational aspirations of students belonging to more than 40 villages around Anand and Vallabh Vidyanagar.

Today, it is one of the oldest and premier Science Colleges of Gujarat. It is named after Vitthalbhai Patel, the eminent freedom fighter who became the first Indian President of the Central Legislative Assembly during the British regime.

V P & R P T P Science College won the award of the Best Science College for three years from the Govt. of Gujarat. Many have been awarded research proposals worth Rs. 1.07 crores. This college caters to a strength of more than 1500 students offering degree courses in basic sciences in Chemistry, Physics, Microbiology, Botany, Zoology, Electronics, Mathematics, Statistics, Computer Science, Industrial Chemistry, and vocational courses like BCA, Industrial Chemistry (Vocational), and Instrumentation. Apart from this, research programmes leading to PhD are also run in Physics, Chemistry, Microbiology, Industrial Chemistry, and Botany. We have also started 13 Add-On Courses to improve the employability of our students. We were also recognized as a College with Potential for Excellence twice and were awarded Rs 1 Crores and Rs. 1.3 crores respectively by the UGC. We were also accredited by NAAC.

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	B++	80.10	2007	31-Mar-2007	31-Mar-2013
2	A	3.12	2013	23-Mar-2013	23-Mar-2018
3	A	3.13	2018	14-Feb-2018	14-Feb-2025

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.

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.

Institutional Strength

- Awarded 'A' Grade NAAC Reaccreditation Second Cycle
- Maintained CPE status in Phase II
- Awarded Grade 'A' by AAA, KCG, Gandhinagar
- Qualified, experienced, dedicated and stable faculty with 69% holding a PhD degree
- University Recognized research centers for PhD in Chemistry, Industrial Chemistry, Physics, Microbiology, Electronics, Botany, Zoology and ELT.
- Major and Minor research projects worth more than Rs one crore (Approx.)
- 160 research publications in national and International Journals
- Very supportive management
- ICT enabled classrooms
- Wi-Fi campus
- Rich automated library with INFLIBNET and use of SOUL 2 software with RFID.
- Well-equipped laboratories
- Active Parents & Counselling Cell
- More than 15 Add on Courses being offered
- No Incidence of Ragging/Sexual harassment till date.
- Active Career & Placement Cell
- Excellent Sports facilities with full time PTI
- Active career counseling and Placement cell
- PDP [Personality Development Programme] for all the students
- Classrooms and campus under CCTV surveillance
- Majority of faculty are members of Board of Study
- Average teaching experience is 25 years
- Most preferred Science College among students of Central Gujarat

**GOLD MEDALIST OF THE COLLEGE
FOR THE YEAR 2020-21**



Pushparajsinh Girishbhai Parmar
Gold medal in B.Sc (Mathematics)
and B.Sc (overall)



Sahiel Narendra Kumar Sharma
Gold medal in
B.Sc. (Industrial Chemistry)



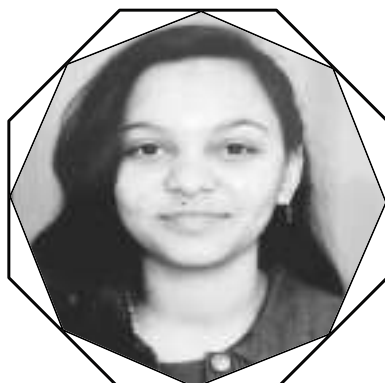
Hasmita Ghanshyam Patel
Gold medal in
B.Sc.(Botany)



Vispute Shivam
Gold medal in
B.Sc.(Chemistry) in Sem (1- 4)



Farhin Salim Altaf Patel
Gold medal in
B.Sc.(Chemistry) in Sem (5 & 6)



Amisha Manubhai Gohil
Gold medal in
B.Sc.(Physics)



Darshil Purveshbhai Bhavsar
Gold medal in
B.Sc. (Instrumentation)

VITHALBHAI PATEL & RAJRATNA P.T.PATEL SCIENCE COLLEGE VALLABH VIDYANAGAR

STAFF LIST – 2021-2022

I/C PRINCIPAL : Mr. Piyush A. Lashkari

PHYSICS :

1.	Dr. P. M. Patel (HOD)	5.	Dr. P. S. Vyas
2.	Dr. J. K. Baria	6.	Mrs. J. N. Batra (P.T.)
3.	Dr. A. R. Jivani	7.	Mr. L. K. Chauhan
4.	Dr. T. H. Patel		

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2.	Dr. H. R. Maradia	8.	Dr. Mrs. T. K. Darji
3.	Dr. K. D. Patel	9.	Mr. A. K. Patel
4.	Dr. M. M. Morekar	10.	Dr. V. B. Kataria
5.	Dr. M. K. Valand	11.	Dr. M. J. Patel
6.	Dr. Mrs. G. M. Patel	12.	Dr. Y. B. Vadwala

INDUSTRIAL CHEMISTRY :

1.	Dr. P. M. Patel (HOD)	3.	Dr. Sagar P. Patel (S.F)
2.	Mr. Bhavik Joshi (S.F)		

BOTANY & ZOOLOGY :

1.	Dr. J. P. Patel (HOD)	5.	Dr. B. N. Patel
2.	Ms. R. H. Solanki	6.	Dr. N. B. Bhatt
3.	Mrs. M. K. Patel	7.	Dr. Rajiv Z. Bhatti
4.	Dr. Mrs. N. H. Brahmbhatt		

MICROBIOLOGY :

1.	Mrs. S. K. Menon (HOD)	3.	Mr. S. A. Shaikh
2.	Mr. A. A. Shukla	4.	Ku. Vanita M. Patel

MATHEMATICS & STATISTICS :

1.	Mr. R. P. Solanki (HOD)		
2.	Mr. H. B. Madhwani		
3.	Dr. D. K. Verma		

ELECTRONICS :

1.	Mr. P. A. Lashkari (HOD)	4.	Mr. K. C. Raval
2.	Mr. B. H. Lashkari	5.	Dr. (Ms.) M. H. Patel
3.	Dr. Mrs. M. Vinodkumar		

COMPUTER SCIENCE :

1.	Mr. R. H. Sadhu (HOD)		
----	-----------------------	--	--

ENGLISH :

1.	Dr. C. R. Gurjar (HOD)		
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PHYSICAL TRAINING INSTRUCTOR :

1.	Dr. J. K. Chauhan		
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LIBRARY :

1.	Dr. L. M. Katara (Librarian)		
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OFFICE :

1.	Mr. J. K. Parmar	3.	Mr. R. V. Patel
2.	Mr. A. S. Patel	4.	Mr. K. R. Patel
		5.	Mr. H. J. Patel

LABORATORY ASSISTANT :

1.	Mr. R. P. Barot	5.	Ms. J. J. Patel
2.	Mr. P. K. Panchal	6.	Mr. Hitesh H. Ramrakhiani
3.	Mr. S. B. Gilder	7.	Mr. K. A. Patel
4.	Mr. P. B. Bhoi		

ADHOC TEACHING STAFF

1.	Mr Tejas C. Sharma	9.	Ms. Vidhi H. Patel
2.	Ms. Dipali M. Mistry	10.	Mr. Kashyap D. Pandya
3.	Ms. Afrin A. Vora	11.	Ms. Ami. N. Patel
4.	Mr. Ketan V. Kava	12.	Ms. Payal H. Sheth
5.	Mr. Harsh A. Makwana	13.	Ms. Kinjal Pandya
6.	Mr. Maulesh V. Vyas	14.	Ms. Neeluben Rathod
7.	Ms. Pooja Dave	15.	Ms. Payal Chauhan
8.	Dr. Jaimin D. Bhatt	16.	Ms. Manisha G. Prajapati

ADHOC TEACHING STAFF

1.	Mr. Rasik P. Bariya	4.	Mr. Mayur R. Patel
2.	Ms. Priti C. Patel	5.	Mr. Neel G. Patel
3.	Mr. Umang A. Patel	6.	Mr. Tejas J. Patel

ચતુર્થ વર્ગના કર્મચારીઓની યાદી

1.	વાઘેલા મંગળભાઈ શનાભાઈ	5.	વણકર દિલીપભાઈ સિમોનભાઈ
2.	સોલંકી જયંતિભાઈ પૂનમભાઈ	6.	પ્રજાપતિ મહેશભાઈ બી.
3.	માછી દિલીપભાઈ લલ્લુભાઈ	7.	ભોઈ ચિરાગભાઈ ડી.
4.	પાંડવ ચંદુભાઈ બાબુભાઈ		

ચતુર્થ વર્ગના કર્મચારીઓની યાદી (SELF FINANCE)

1.	Mr. Rajendra S. Tirthokar	2.	Mr. Pankaj R. Baraiya

ચતુર્થ વર્ગના કર્મચારીઓની યાદી (ADHOC)

1.	Mr. Suleman. B. Parmar	7.	Mr. Mahendrabhai Parmar
2.	Mr. Jagdish .S. Machhi	8.	Mr. Kailash Rathva
3.	Mr. Dinesh. S. valendra	9.	Mr. Nilesh Patel
4.	Mr. Hasmukh. D. Vagela	10.	Mr. Kalpik V. Patel
5.	Mr. Balubhai M Machhi	11.	Mr. Sunil K. Patel
6.	Mr. Rahul. S Parekh	12.	Mr. Bhavesh A. Patel

VITHALBHAI PATEL & RAJRATNA P.T.PATEL SCIENCE COLLEGE VALLABH VIDYANAGAR

OTHER COMMITTEE LIST 2021-2022

CHAIRPERSON: Mr. Piyush A. Lashkari			
1. IQAC			
1.	Dr. Nikunj Bhatt	2.	Dr. C. R. Gurjar
2. COUNSELLING & PARENT CELL			
1.	Dr. C. R. Gurjar (Coordinator)	2.	Mrs. M. K. Patel
3.	Dr. Ms. M. H. Patel	4.	Mr. A. A. Shukla
5.	Dr. (Mrs.) G. M. Patel	6.	Mr. H. B. Madhwani
7.	Dr. P. S. Vyas		
3. LIBRARY ADVISORY COMMITTEE			
1.	Dr. C. R. Gurjar (Coordinator)	2.	Mr. L. M. Katara
3.	Mr. B. H. Lashkari	4.	Mr. R. P. Solanki
5.	Dr. B. N. Patel	6.	Mr. A. K. Shukla
7.	(Student Central Committee) (GS)		
4. WEBSITE, INTERNET & COMPUTER WORK COMMITTEE			
1.	Mr. Ashish Joshi (Coordinator)	2.	Mr. R. H. Sadhu
3.	Mr. Navtej P. Bhatt	4.	Mr. H. H. Ramrakhiani
5.	(Student Member)	6.	(Student Member)
5. RESEARCH CELL			
1.	Dr. (Mrs.) M. V. Kumar (Coordinator)	2.	Dr. P. M. Patel (I.C.)
3.	Dr. B. C. Dixit	4.	Dr. J. K. Baria
5.	Dr. Nayanaben Brahmbhatt	6.	Dr. K. D. Patel
7.	Dr. N. B. Bhatt	7.	Dr. C. R. Gurjar
6. INDUSTRY INSTITUTE INTERACTION CELL (TRAINING & PLACEMENT CELL)			
1.	Dr. B. C. Dixit (Coordinator)	2.	Dr. P. M. Patel (I.C.)
3.	Dr. P. M. Patel (Phy.)	4.	Mr. P. A. Laskari
7. EQUAL OPPORTUNITY CELL			
1.	Dr. V. B. Kataria (Coordinator)	2.	Mr. L.M.Katara
3.	Mr. V. K. Pijwala	4.	Dr. Mrs. T. K. Darji
5.	Mr. J. K. Parmar	6.	(Gender Champion Boys)
7.	(Gender Champion Girl)		
8. ALUMNI ASSOCIATION			
1.	Mr. P.A.Lashkari (Coordinator)	2.	Dr. T. H. Patel
3.	Dr. B. C. Dixit	4.	Dr. J. P. Patel
5.	Ms. S. K. Menon	6.	All the staff members who are alumni of the college

9. WOMENS DEVELOPMENT CELL			
1.	Mrs. S.K.Menon (Coordinator)	2.	Mrs. M. K. Patel
3.	Ku. Vanita M. Patel	4.	Dr. Mrs. G. M. Patel
10. EXAMINATION COMMITTEE			
1.	Dr. J. P. Patel (Coordinator)	2.	Dr. A. R. Jivani
3.	Mr. R. V. Patel	4.	Mr. V. K. Pijwala
11. TIME TABLE COMMITTEE			
1.	Dr. P. M. Patel (Phy) (Coordinator)	2.	Dr. B. C. Dixit
3.	Dr. J. P. Patel		
12. STUDENT GRIEVANCE REDRESSAL COMMITTEE (Including Exam)			
1.	Dr. M. M. Morekar (Coordinator)	2.	Dr. P. S. Vyas
3.	Mrs. S. K. Menon	4.	Dr. M. Vinodkumar
5.	Student Member (GS)		
13. PROSPECTUS & A.Y.CALENDER COMMITTEE			
1.	Dr. A. R. Jivani (Coordinator)	2.	Mr. P. A. Lashkari
3.	Dr. N. B. Bhatt	4.	Dr. C. R. Gurjar
14. DISCIPLINE COMMITTEE			
1.	Dr. B. N. Patel (Coordinator)	2.	Dr. K. D. Patel
3.	Dr. V. B. Kataria	4.	Dr. H. B. Madhvani
5.	Dr. (Ms.) M. H. Patel	6.	Ms. R. H. Solanki
7.	Mr. R. P. Solanki	8.	Dr. Mrs. T. K. Darji
9.	Ku. Vanita M. Patel	10.	Student Member (10)
15. PERSONALITY DEVELOPMENT PROGRAMME			
1.	Dr. K. D. Patel (Coordinator)	2.	Dr. R. H. Parab
3.	Mr. K. C. Raval		
16. INTERNAL COMPLAINT COMMITTEE (ICC)			
1.	Ms. S.K.Menon (Coordinator)	2.	Dr. G. M. Patel
3.	Dr. P. M. Patel (Physics)		
17. HOSTEL (GIRLS) & L.R			
1.	Dr. (Ms.) M. H. Patel (Coordinator)	2.	Dr. (Mrs.) N.H. Bahmbhatt (LR – I)
3.	Dr. Mrs. G. M. Patel (LR – II)	4.	Student Member (LR – I)
5.	Student Member (LR – II)		
18. ANTIRAGGING			
1.	Dr. T. H. Patel (Coordinator)	2.	Mrs. R. H. Solanki
19. COACHING FOR ENTRY INTO SERVICES			
1.	Dr. A.R.Jivani (Coordinator)	2.	Dr. R. H. Parab
3.	Student Member	4.	Student Member
20. ADD ON CERTIFICATE COURSES			
1.	Dr. P. M. Patel (I.C) (Coordinator)	2.	Dr. R. H. Parab
3.	Mr. R. P. Solanki	4.	Dr. R. Z. Bhatti

75th ANNUAL REPORT OF THE COLLEGE YEAR 2021-22

Total Enrolment 2021-22

Program	Semester	Total
BSc	I	700
BSc IC (V)	I	62
BCA	I	71

Examination Results 2020-21

Program	Semester	S P Uni	College
BSc	II	92.62	97.20
	IV	94.40	97.13
	VI	68.22	89.27
BCA	II	96.21	98.31
	IV	95.85	100
	VI	93.78	96.97

LIST OF GOLD MEDALIST FOR YEAR 2020-21

1. **Farhin Patel** of BSc Chemistry was awarded Dr. Kanubhai Chunibhai Desai gold medal by Sardar Patel University.
2. **Farhin Patel** of BSc Chemistry was awarded Smt. Kamlaben Chandulal Desai gold medal by Sardar Patel University.
3. **Shivam Vispute** of BSc Chemistry was awarded Dr. B. N. Mankad gold medal by Sardar Patel University.
4. **Amisha Manubhai Gohil** of BSc Physics was awarded gold medal by Sardar Patel University.
5. **Shaiel N. Sharma** of B.Sc. Industrial chemistry was awarded gold medal by Sardar Patel University.
6. **Pushparajsinh Girishbhai Parmar** of BSc Mathematics was awarded gold medal by Sardar Patel University.
7. **Pushparajsinh Girishbhai Parmar** (SY & TY Mathematics) was awarded gold medal by Sardar Patel University.

ACTIVITIES OF IQAC

- This year MHRD has invited applications for **National Institutional Ranking Framework [NIRF]**, our college has applied for the same online data

submission.

- Achieved GSIRF 4 star
- Development of Quality Culture in the institution through continuous suggestion and live in touch with Principal of the college.
- 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, few power point presentations and notes are available for various subjects taught in our College.
- **“Online feedback system”** is developed through students can response on Educational and Administrative quality-related institutional processes;
- **Parents' and Teachers'** feedback started
- IQAC & Counselling CELL organized a Subject Selection Seminar for all FYBSc Students to enable them to make informed choice at SYBSc.
- Organised **Exit meeting with T Y B Sc Students** for personal feedback as well as to provide them opportunity to express their view about the College.
- Invited lecture at International Workshop organized by ISCA 5th Aug 2016
- Presidential Lecture At international Conference Organized by Rajyaguru college of Science Pune
- Paper presented at international Conference Organized by ISCA
- Invited Chief Guest AT Shajanand High school Annual Function Visnagar

STUDENTS' ACHIEVEMENTS

Industrial Chemistry Department:

- Third year Industrial chemistry vocational cricket team won first position in VPCL cricket league.
- Third year Industrial chemistry traditional cricket team secured runners up position in VPCL cricket league. (1,2 in SPORTS)
- Dharmendra Sinhvanrajsinh Sindha, Dhruvil Ajaybhai Prajapati and Farhan Aaiyubmiya Chauhan of TY IC secured first position in Poster Presentation entitled “ Safety in Unit operation” at Virtual National Seminar on Recent Trends In Chemical Technology- A Safety Perspective” organised by ISTAR, VV Nagar, CVM University sponsored by GUJCOST on 24th December, 2021.
- Panchal Janki, Parmar Hirva and Anjali Rabari of S. Y. IC secured third rank in poster presentation entitled “Overview on Industrial safety at virtual national seminar on Recent Trends In Chemical Technology- A Safety Perspective” organised by ISTAR, VV Nagar, CVM University sponsored by GUJCOST on 24th December, 2021

INDUSTRIAL EDUCATIONAL TOURS / TRAINING FOR STUDENTS/FIELD PROJECTS:**Chemistry**

- 71 Students of T. Y. B. Sc. Chemistry visited polymer science department, ISTAR on 3/9/2021.
- 50 Students of T. Y. B. Sc Chemistry visited Surface coating department, ISTAR on 18/9/2021.
- 100 students visited Champion Coatings Pvt. Ltd, GIDC, VV Nagar on 8/9/2021.
- 100 students visited Anoopam Adhesive Pvt. Ltd, GIDC, VV Nagar on 9/9/2021.
- Third year Industrial chemistry vocational students visited LAKSH FINECHEM PVT.Ltd. On 22nd September, 2021.

Industrial Chemistry

- Third year Industrial chemistry vocational and Traditional students underwent one day training program on instrumental analytical methods at SICART, V. V. Nagar on 20th and 21st September, 2021.

Physics

- 25 students participated in training programme for TY B Sc. students at SICART on 8th February, 2022..

PLACEMENT CELL:

- One day virtual seminar on MSME-DI was organized for the student of Sem 6 students on 15/12/2022.

ACHIEVEMENTS OF FACULTY/APPOINTMENTS**Physics**

- Dr P M Patel the Convener, Two Days State Level Workshop on Space Technology on 17th & 18th February, 2022 at ISTAR
- Dr P M Patel has been nominated as a Senate Member of Sardar Patel University, V V Nagar for the period of 08/02/2022 to 21/02/2027.

Industrial Chemistry

- Dr. Jaimin Bhatt of Industrial Chemistry Secured first prize in ORAL presentation at GUJCOST sponsored one day virtual seminar on 4th March, 2022. Nanotechnology: Chemistry and biology at the interface of 21st century" organised by ARIBAS college, CVM University.
- Dr. Sagar P. Patel and Mr. Umang A. Patel representing in V. P. Science staff team in CVM cricket tournament-2022 and V.P. Science team secured fifth position out of 23 teams

PUBLICATION IN UGC APPROVED JOURNALS**Chemistry**

- A greener approach for synthesis of quinoline-3-carboxylate building block and their biological screening in Asian journal of organic and medicinal chemistry, Volume 6, issue 4 by Dr.vipul Kataria

BOOKS PUBLISHED**Physics Dept:**

- Dr P M Patel Published "College Physics Semester-I for the students of F.Y.B.Sc (Sem 1)", Atul Prakashan, Ahmedabad with ISBN No. 978-93-85138-15-7
- Dr P M Patel Published "College Physics -2 for the students of F.Y.B.Sc. (Sem 2)" Atul Prakashan, Ahmedabad with ISBN No. 978-93-85173-62-2

Mathematics Dept

- Mr. Rajesh P Solanki: "Calculus" ISBN No. 978-93-85138-20-1 (2021-22)
- Mr. Rajesh P Solanki: "Algebra" ISBN No. 978-93-85138-61-4 (2021-22)
- Mr. Tejaskumar C Sharma: "Algebra" ISBN No. 978-93-85138-61-4 (2021-22)

Botany & Zoology

- Dr.J.P.Patel, Dr.N.B.Bhatt, Mrs. Medha K Patel and Raxa H.Solanki published two books of Semester I & II for Biology students according to new syllabus of Sardar Patel university.
- Dr.J.P.Patel and Raxa Solanki also published one book on Environmental Biology of Semester 1 for BSc students according to new syllabus of Sardar Patel University

PAPER OR POSTER PRESENTATIONS

- Structural, spectroscopic and electron collisional studies of isoxazole (C_3H_3NO) Tejas Jani, Aparna Shastri, Dineshkumar Prajapati, P.C. Vinodkumar, Chetan Limbachiya, Minaxi Vinodkumar Chemical Physics 553, 111379 (2021).
- Theoretical Investigation of various Inelastic cross-sections for e-CO scattering S Vadhel, D Prajapati, M Vinodkumar, C Limbachiya, P C Vinodkumar Proceedings of the International Conference on Atomic, Molecular, Optical & Nano Physics with Applications, Springer, 407-419 (2022).
- Electron induced elastic and inelastic processes for perfluoroketone (PFK) molecules N Thakkar, M Swadia, M Vinodkumar, N Mason, C Limbachiya Plasma Sources Science and Technology 30 (8), 085008.
- Theoretical investigations of structural, spectroscopic and electron collision data of acetone D Prajapati, PC Vinodkumar, C Limbachiya, M Vinodkumar Molecular Physics 119 (14), e1948124

- Dr B. C. Dixit, Dr Vipul Kataria, Dr M. J. Patel, Dr K. D. Patel, Dr M. M. Morekar, Dr H. R. Maradiya, Dr G. M. Patel, Dr T. B. Darji, Dr T. B. Darji, Dr M. K. Valand, Dr R. H. Parab, Dr Yogesh Vadwala and Mr A. K. Patel all (12) Faculty members presented a paper each in GUJCOST sponsored national conference "Nanotechnology: Chemistry and biology at the interface of 21st century" organized by ARIBAS, New Vallabh Vidyanagar on 4th March, 2022.
- Dr. Jaimin Bhatt presented orally research paper entitled "A Green Approach in Synthesis of Pyrimidines hybrid as potent anti-malarial leads." at GUJCOST sponsored one day virtual seminar on 4th March, 2022. "Nanotechnology : Chemistry and Biology at the interface of 21st century" ,organised by ARIBAS college, CVM University
- Dr Nikunj Bhatt presented a paper at an International Conference Organized by ISCA.
- Mr. Tejaskumar C Sharma, presented a paper titled "Application of Numerical Methods in Fluid Flow through Porous media: A Review" at International Conference on Recent Developments in Mathematics and Mathematical Sciences, organized by Calcutta Mathematical Society, Kolkata.
- Dr C R Gurjar co-authored a paper on Teaching legal English to the students of Law in Gujarat: Challenges and Strategies published the Proceedings of the National Conference on Post method Pedagogy.

WORKSHOPS OR SEMINARS ORGANIZED

Physics:

- Physics Department in collaboration with ISTRAR have also conducted Two Days State Level Workshop on Space Technology on 17th & 18th February, 2022. 67 students from V.P. Science College and other Colleges participated in this workshop.

FACULTY AS GUEST SPEAKERS/VISITING FACULTY/RESOURCE PERSON

Zoology:

- Dr Nikunj Bhatt delivered an Invited lecture at International Workshop organized by ISCA 5th Aug 2016
- Dr Nikunj Bhatt delivered a Presidential Lecture At international Conference Organized by Rajyaguru College of Science, Pune.

Chemistry:

- Dr. B. C. Dixit served as a guest faculty in ME program of BVM engineering college, Vallabh Vidyanagar
- Dr. B. C. Dixit delivered a guest lecture at science college, Borsad

- Dr. B. C. Dixit delivered a guest lecture at science college, Petlad
- Dr. Vipul Kataria delivered a guest lecture at Department of Nano Science and Advance Materials, Saurashtra University, Rajkot on 07/02/2022
- Dr. B. C. Dixit chaired a session in State Level Scientific Conference in Gujarat Vigyan Sammelan organized by Vigyan Gurjari on 1/2/2022.
- Dr. B. C. Dixit, Judged a poster presentation at National level Seminar funded by GUJCOS on 4/3/2022.
- Dr. Sagar P. Patel of Ind. Chem. is invited as a guest Faculty in alumni meet - 2021 organised by Sardar Patel Institute Of Applied Science, Bakrol

WORKSHOPS/SEMINARS ATTENDED BY THE FACULTY

- Dr. Jaimin Bhatt of Ind. Chemistry, attended GUJCOST sponsored one day virtual seminar on 4th March, 2022. "Nanotechnology : Chemistry and biology at the interface of 21st century" organised by ARIBAS college, CVM University.
- Dr. J. P. Patel along with 14 students of Botany attended a National workshop on hands on training in Molecular Biology Techniques organized by Shri A N Patel PG institute of Science and Research.
- Mr. Rajesh P Solanki of Mathematics Dept., attended e-workshop on "Machine Learning and Data Science" organised by the Dept. of Mathematics and Dept. of Data Science and Business Systems, SRMIST, Kattankulathur, Tamilnadu, India during 11th and 12th November 2021.
- Dr Minaxi Vinod Kumar attended One day International level workshop on "An introductory workshop for our new Quantemol-EC (1.2) and Quantemol-DB global modeling software" on 13th July 2021
- Dr Minaxi Vinod Kumar attended the XXII International Symposium on Electron Molecule Collisions and Swarms (POSMOL) to be held virtually which organized by University of Norte Dame, USA during July 29–30, 2021
- Mr. Tejaskumar C Sharma of Mathematics Dept, attended two days webinar on "Computational Methods in Applied Mathematics and Engineering" organized by Dept. of Applied Sciences and Humanities, Sankalchand Patel University, Visnagar during August 13 to 14, 2021.
- Mr. Tejaskumar C Sharma of Mathematics Dept attended "International Conference on Recent Developments in Mathematics and Mathematical Sciences" organized by Calcutta Mathematical Society, Kolkata during December 9 to 11, 2021.
- Mr. Tejaskumar C Sharma of Mathematics Dept, participated in National Level Conference on Mathematics, an event of Gujarat Vigyan Sammelan – 2022 organised by Vigyan Gurjari.

FACULTY DEVELOPMENT PROGRAMS:**Chemistry:**

- Dr. Vipul kataria attended faculty development program by TLC centre, Ramanujan college, New delhi during 21/08/2021 to 19/09/2021
- Dr. Manish J. Patel attended faculty development program by TLC centre, Ramanujan college, New Delhi during 19/10/2021 to 18/11/2021

GUEST TALKS ARRANGED BY THE DEPARTMENT**Chemistry:**

- Dr. H. M. Patel, Professor, Department of Chemistry, Sardar Patel University, and Vallabh Vidyanagar delivered a guest lecture to TY chemistry students on Heterocyclic Chemistry at 3/9/2021.
- Dr. Saurabh Soni, Professor, Department of Chemistry, Sardar Patel University, and Vallabh Vidyanagar delivered a guest lecture to TY chemistry students on Batteries: present status and future at 7/9/2021.
- Dr. D. K. Raval, Professor & Head, Department of Chemistry, Sardar Patel University, Vallabh Vidyanagar delivered a guest lecture to TY chemistry students on Organic Chemistry at 20/9/2021.
- Dr. Mandar Karve, Assistant Professor, Department of Industrial Chemistry, ISTAR, and Vallabh Vidyanagar delivered a guest lecture to TY chemistry students on Future of industrial Chemistry at 27/11/2021.
- Dr. Kinnari Bhatt, Assistant Professor, Department of Organic Chemistry, ISTAR, and Vallabh Vidyanagar delivered a guest lecture to TY chemistry students on computational chemistry at 6/1/2022.
- Dr. Mahendra Raj, Assistant Professor, Department Polymer science, ISTAR, Vallabh Vidyanagar delivered a guest lecture to TY chemistry students on Future of polymer Chemistry at 1/2/2022.
- Dr. Mayank Patel, Assistant Professor, Department Surface coating, ISTAR, Vallabh Vidyanagar delivered a guest lecture to TY chemistry students on aspects of surface coating technologies at 1/2/2022.
- Dr. Yogesh Bholia, Faculty, CYSST, SPU, Vallabh Vidyanagar delivered a guest lecture to TY Chemistry students on NMR spectroscopy at 11/2/2022.
- A guest lecture was organized on 8th of September-2021 by the alumni who is working with ByJUS on Molecular biology for Botany students.(Botany)

Physics:

- Prof Sunil Chaki, Department of Physics, Sardar Patel University, Delivered talk on "Electromagnetic Spectrum- A Unity in Diversity" on 16th September, 2022.

Industrial Chemistry:

- The Dept organized three talks by Yogendra Makwana, Dr. D. K. Raval, and Dr. Vijay Mannari each for Ind.Chemistry students.

Microbiology:

- Dr Shilpa Gupte & Dr Arif Khan from ARIBAS delivered a talk on Prospects in Microbiology to 6th Sem students.
- Dr. Kamlesh Patel delivered a talk on Transport for pathogenesis (17/09/2021)

EVENTS ORGANIZED BY THE DEPARTMENT (Other Than Guest Talks)

Mathematics and Statistics

- Organized State level "Prof. A. R. Rao Mathematics Competition" on 3rd October, 2022 for T. Y. B. Sc. (sem - 6) students in which students from various colleges of VVNagar, Anand & Nadiad participated.
- Ramanujan Mathematics club organised Poster competition for SY and TY Mathematics Students on 14th March 2022.

Physics

- The department facilitated the conduction of National **Graduate Physics Examination (NGPE-2022) on 27/03/2022, Sunday** at V.P. Science College. This examination is organized by **Indian Association of Physics Teachers (IAPT)**. 30 students of V.P.& R.P.T.P. Science College, V.V.Nagar took the test.

Chemistry

- The Dept organized 'Vigyan SarvtraPujayate' in collaboration with M S University, Baroda for college and school students. The event highlighted the contribution of Indian science and Indian scientists through 150 posters and short films. About 900 students around V VNagar visited the event.

Botany & Zoology

- Zoo Fest was organized on 2nd march 2022 by Zoology Students with theme "WATER", in which 74 students participated. Zoo Fest is the festival in which Students of zoology are encouraged create models and present them. The Zoo Fest was cosponsored by Community Science Centre Sardar Patel University.

Industrial Chemistry

- Alumni talk series 2021 by our revered alumni on 18th September, 2021
- Seminar for TY IC & ICV students organised by industrial chemistry department from 6th Sept. to 10th Sept., 2021.

Botany & Zoology

- Ty botany students visited Anand agriculture university on 5th Jan 22 along with Dr. Nayna Brahmbhatt. She also accompanied botany students to visit

Ayurvedic College new Vidyanagar on 11 th December 2021.

- Botany and zoology students also Visited SICART.

Micro-Biology

- A state level intra-collegiate competition sponsored by G.S.B.T.M, Gandhinagar, was hosted by the Microbiology department on 27th February 2022. The events included are as follows: Seminar presentation, Article writing, Scientoon making, Extempore speech, Quiz and Poster presentation.

STUDENTS 'PARTICIPATION IN VARIOUS COMPETITIONS OR SEMINARS

Industrial Chemistry

- 15 students of industrial chemistry department participated in poster presentation entitled " Overview on Industrial safety at virtual national seminar on RECENT TRENDS IN CHEMICAL TECHNOLOGY- A SAFETY PERSPECTIVE" organised by ISTAR, VV Nagar, CVM University sponsored by GUJCOST on 24th December, 2021.

Biology

- Students of TY Botany participated in Science Carnival 2022.
- 75 students of 6th semester participated in a workshop from 7th to 9th February 2022 at SICART.

Microbiology

- An Inter-Collegiate Competition was held between 24th to 29th January 2022 wherein 20 students of 4th and 6th Semesters participated for different events like Seminar presentation, Article writing, Scientoon making, Extempore speech, Quiz, Poster presentation. The winners were selected for the state level competitions held on 27th February 2021 .Their names are as follows: Reini Reji (T.Y Seminar), Sakshi Deheri (Extempore speech), Helly Patel (S.Y Seminar) Amala George &Dhwani Vyas (Quiz), Manjeeta Rao (Article writing), Maulee Thakor (Scientoon Making)

Mathematics and Statistics

- Students zara participated in Poster Competition in "Science Carnival" organised by Science Club, V P & R P T P Science College, Vallabh Vidyanagar.
- Keyurkumar Vaghela, participated in power point presentation in "Science Carnival" organised by Science Club, V P & R P T P Science College, Vallabh Vidyanagar
- 8 Students participated in in poster competition organised by Ramanujan Mathematics Club

MISCELLANEOUS:

- Career counselling for TY industrial chemistry vocational and traditional

students by Dr. Jigar V. Patel, head, IC Department, ISTAR, CVMU.

- Career counselling for TY industrial chemistry vocational and traditional students by Dr. Amit Thumar, Assistant Professor, Polymer Science Technology Department, ISTAR, CVMU.
- Career counselling for TY industrial chemistry vocational and traditional students by Dr. Mayank Patel, head, SCT Department, ISTAR, CVMU.
- 60 students of Microbiology Dept. attended a talk on Career, Guidance and counselling held at ISTAR on 4th February 2022.
- Dr Nikunj Bhatt was Invited Chief as Guest at Shajanand High School Annual Function, Visnagar.
- Dr Charudutt Gurjar was invited as Subject Expert for interview in BVM College of Engineering., V V Nagar, and In Sardar Patel Education Trust , Vadatal Road.
- Dr Charudutt Gurjar was invited **to contribute be a content developer** by BAOU , Gandhinagar.
- Dr Charudutt Gurjar **chaired a session** in National Conference on 'Discourse Oriented Pedagogy for Language Classroom ', jointly organized by HMTIER & ELT@I & Alumni Association of HMPTIER on 25th & 26th February 2022.
- List of thesis reviewed by Dr Minaxi Vinodkumar.

Thesis Title : Electron and Positron impact ionization cross-sections of atoms and molecules

Research Scholar : Shivani Gupta

University Name : Hemvati Nandan Bahuguna Garhwal University, Srinagar, Uttarakhand

LIST OF ONGOING PROJECTS:

Investigator : Dr Minaxi Vinod Kumar

Project title : Electron impact studies of prebiotic and interstellar molecules

Funding agency : DST-SERB, New Delhi

Status : Ongoing

Sanctioned amount : **Rs. 2666612/-**

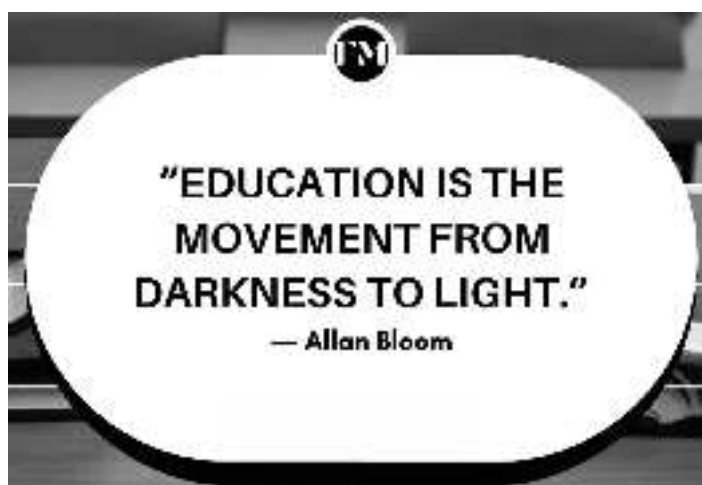
Retirement:

“You will always be remembered for your hard work throughout the years. Thank you for your dedication to the institution. Enjoy your retirement!”

- Dr Dinesh Verma, Associate Professor, Mathematics & Statistics Dept. retired on 14th June 2022.
- Mr. R. J. Patel (lab Assistant) retired in the month of October, 2021.

CENTRAL COMMITTEE FOR THE YEAR 2021-22

Sr. No.	Portfolio	Ex-officio name/s	Student secretary
1	Cultural Club	Mr. K C Raval	Aditi Rajiv Vaidya
2	Fine Arts Club	Mr. L K chauhan	Nehal J Prajapati
3	Debate Club	Dr. C R Gurjar	Sakshi Deheri
4	Nature Club	Mrs. M K Patel	Niravkumar Ashokbhai Parmar
5	Literary Club	Dr. R H Parab Dr. Yogesh B Vadvwala	Raj Mukeshbhai Patel
6	Science Club	Dr. T H Patel	Vrutanshi Mukeshbhai Patel
7	NCC	Maj Dr. M M Morekar Miss Shivangi Valand	Anurag V Pandey – Boys Anna Parekh - Girls
8	NSS	Dr. Rajiv Bhatti Mr. A K Patel	Vismay Chauhan – Boys Archna Panchal - Girls
9	Sports Club	Dr. J K Chauhan	Mann Kaushal Kotadia – Boys Prachi Mayankkumar Shah – Girls



REPORT OF STUDENT CENTRAL COMMITTEE**YEAR: 2021-2022****President: Mr. P. A. Lashkari****Vice President: Dr. P. M. Patel****1. SCIENCE CLUB**

Ex-Officio: Dr. Tarun H. Patel

Student Secretary: Ms. Vrutanshi M. Patel

Sr. No	Event Name	Date	No. Of Participants
1	Science Carnival	22/02/2022	97
2	Poster Presentation (A) Electromagnetic Radiation and Our Life (B) My Favorite Scientist (C) OCEAN : The Unknown World	22/02/2022	35
3	PowerPoint Presentation (A) 5G Technology and Future (B) Modern Threats to Human Life (C) Advantages of Artificial intelligence	22/02/2022	27
4	Online Activities: Science Article Writing. Different Science Magazines. Posters on Biography of Scientists. Posters on Different Science Days. Different Science Days Celebration online.		

2. FINE ARTS CLUB

Ex-Officio: Mr. L K Chauhan

Student Secretary: Ms. Nehal Prajapati

Sr. No.	Event Name	Date	No. Of Participants
1	Arti Decoration	11-10-2021	06
2	Azaadi Ka Amrut Mahotsav- District Level Rangoli Competition Miss Nehal Prajapati Awarded Second Prize In Rangoli Competition In All Over Anand District	08-01-2022	11
3	Rangoli	11-03-2022	10
4	Spot Painting	11-03-2022	10
5	Poster Making	11-03-2022	10
6	Mahendi	11-03-2022	16
7	Hair Style	11-03-2022	05
8	Sari Wearing	11-03-2022	06
9	Gift Card Making	11-03-2022	05
10	Logo Making	11-03-2022	06
11	Clay Modeling (S P University Youth Festival) Jay Rajeshbhai Darji Awarded Second Prize	29-12-2021	---

3. CULTURAL CLUB

Ex-Officio: Mr. Kamlesh Raval

Student Secretary: Miss. Aditi Vaidya

Sr. No.	Event Name	Date	No. Of Participants
1	Independence Day Celebration	15-08-2021	16
2	Navratri Celebration (Rum Jhum Norta)	11-11- 2021	250
3	Sardar Patel University Youth Festival Arya Khadape of T.Y.B.Sc Micro won runners-up prize for the classical dance	28 to 30-12-2021	35
4	"We Are Alive" the Talent Hunt Program (28 students took part in dance competition, 10 students in singing competition, 13 students in Drama and 7 students participated in Anchoring competition.)	28-02-2022	58

4. NATURE CLUB

Ex-Officio: Mrs. M K Patel

Student Secretary: Niravkumar A. Parmar

Sr. No.	Event Name	Date	No. Of Participants
1	Essay Writing Competition	26-10-2021	5
2	Poster Making Competition	04-12-2021	8
3	Bird Watching Session	16-12-2021	20
4	Visit to Mahisagar Van	22-12-2021	90
5	Trip to Pariej Wetlands and Bird Sanctuary	02-01-2022	20
6	Nature Photography Competition	09-02-2022	11

5. LITERARY CLUB

Ex-Officio: Dr. R. H. Parab

Student Secretary: Raj M. Patel

Co-editor: Dr. Yogesh Vadvalla

Sr. No.	Event Name And Venue	Date	No. Of Participants
1.	Essay Writing	10/10/2021	18
2.	Thought for today, Information of Scientists, Various Festivals and National & International Days celebration on social media	Everyday	10

NATIONAL CADET CORPS (SENIOR DIVISION) (BOYS)

Ex-Officio: Maj. Dr. M.M.Morekar

Student Secretary: SUO PANDEY ANURAG VIJENDRAKUMAR

At the beginning of the year 48 boys have been enrolled in First year in NCC. Year wise strength is given below.

FIRST YEAR IN NCC	: 48
SECOND YEAR IN NCC	: 33
THIRD YEAR IN NCC	: 29
TOTAL	: 110

During the academic year of 2021–2022 NCC cadets have attended various camps as given below.

Sr. No.	Event Name	Date	No. Of Participants
LIST OF CAMP			
1	EK BHARAT SHRESHTH BHARAT CAMP (EBSB CAMP), ONLINE 7 GUJ BN NCC Naval Unit VERAVAL NCC NCC GP HQ JAMNAGAR	26 to 31-07-2021	01
2	CATC CAMP (RDC), THAMNA	18 to 24-09-2021	03
3	CATC CAMP (RDC), THAMNA	03 to 09-10-2021	03
4	CATC CAMP (RDC), THAMNA	18 to 24-10-2021	02
5	CATC CAMP (RDC), THAMNA	25 to 31-10-2021	02
6	CATC CAMP, THAMNA	25 to 31-10-2021	58
7	CATC CAMP (RDC – IGC), AHMEDABAD	08 to 17-11-2021	02
8	EK BHARAT SHRESHTH BHARAT CAMP (EBSB CAMP) ONLINE 2 GUJ GIRLS RAJKOT NCC GP HQ RAJKOT	01 to 06-12-2021	01
ACHIEVEMENTS:			
1	SUO PANDEY ANURAG VIJENDRAKUMAR secured 3 rd Position in PowerPoint Presentation Competition on "Home Isolation Techniques" organized by 4 HARIYANA GIRLS BATTALION NCC, Nuh & 5 HARIYANA BATTALION NCC, Gurgaon of GGDSD College, Palwal (Haryana) (I).	25 MAY, 2021	01
2	UO BHOI ATULBHAI KIRITBHAI secured First Position in Drill Competition in CATC camp, Thamna.	25 to 31-10-2021	01
3	LCPL KUMAWAT SURENDRA MULCHAND secured Second Position in Drawing Competition In CATC camp, Thamna.	25 to 31-10-2021	01
4	CDT PARMAR ANISHKUMAR DEVAYATBHAI secured Third Position in Drawing Competition In CATC camp, Thamna.	25 to 31-10-2021	01

	BLOOD DONATION:		
1	NCC Cadets donated Blood and Ten cadets participated in various duties like Traffic control and to discipline management on Kargil Vijay Divas organized by C P Patel Commerce College, Anand.	26-07-2021	03
2	NCC cadets donated Blood in CATC Camp, Thamna	25 to 31-10-2021	07
3	NCC cadets donated Blood in Blood Donation Camp organized by P M Patel Science College, Anand.	28-11-2021	02
	PARTICIPATION		
1	NCC cadets along with NCC officer Major Dr. M.M.MOREKAR have celebrated INDEPENDENCE DAY on 15 th AUGUST 2021 at V.P. & R.P.T.P.SCIENCE COLLEGE, VALLABH VIDYANAGAR. Major Dr. Rekha S. Patel (Ex NCC Officer of V.P. & R.P.T.P.SCIENCE COLLEGE, VALLABH VIDYANAGAR) was Chief Guest of this INDEPENDENCE DAY POGRAMME.	15-08-2021	50
2	NCC cadets participated in Rifle Shooting Competition (Mavlankar Shooting Competition) at Nadiad	04-09-2021	07
3	NCC cadets along with the NCC officer Major Dr. M .M. MOREKAR have participated in GUARD OF HONOUR PARADE in the honour of GOVERNER of GUJARAT at S.P.UNIVERSITY, VALLABH VIDYANAGAR. Major Dr. M .M. MOREKAR was PARADAE COMMANDER of this GUARD OF HONOUR PARADE.	26-12-2021	11
4	NCC cadets along with NCC officer Major Dr. M.M.MOREKAR have celebrated REPUBLIC DAY at V.P. & R.P.T.P.SCIENCE COLLEGE, VALLABH VIDYANAGAR.	26-01-2022	50
5	NCC cadets participated in Stimulator Rifle Shooting at 2 CTC, Vallabh Vidyanagar	22-02-2022	21

OTHER ACTIVITIES :	
	<ul style="list-style-type: none"> Gujarat ke KARAMVEER 01 June, 2021 Conducted by V.V Nagar Group & one Trust. Cleanliness Drive : 4 Times during year Ek me Sau (100) ke liye Campaign. COVID Awareness Video Message making. COVID Vaccination Awareness Video Message Making. Participated in AIDS Awareness Rally CATC camp, Thamna (25 to 31-10-2021) PLEDGE on Constitution Day

NATIONAL CADET CORPS (SENIOR DIVISION)(GIRLS)

Ex-Officio: LT. SHIVANGE VALAND

Student Secretary: SUO. AENA PAREKH

Sr. No.	Event Name	Date	No. Of Participants
1	To Enrollment In NCC	28-09-2021	33
2	CATC Camp	18/24-07-2021	18
3	Firing Competition 1 st rank: - CDT. Helly Patel 2 nd rank UO. Anjali Kumari	22-07-2021	
4	Singing Competition	23-07-2021	5
5	Independence Day	15-AUG-2021	18
6	RDC Camp	26-11 to 24-12-2021	01
7	State Level Dance Competition	11/15-12-2021	01
8	Swachh Bhart Abhiyan	30-11-2021 AND 5-01-2022	40
9	Republic Day	26-01-2022	45
10	Karate Class	14/17 -03-2022	50

7. NATIONAL SERVICE SCHEME

NSS Program Officer: Dr. Rajiv Bhatti and Mr. Atul Patel

Student Secretary: Vismay Chauhan and Archana Panchal

Sr. No.	Event Name And Venue	Date	No Of Participants
1	Campus Cleaning	27/2/2021	180
2	Teachers Day Elocution Competition	4/9/2021	16
3	Pre Rd Selection Camp	07/09/2021	01
4	Ecofriendly Ganpati Murti Making	9/9/2021	15
5	Blood Donation Camp	16/9/2021	78

6	Netrutva A Leadership Development Workshop	19/9/2021	81
7	NSS Day Celebration At Kutch (State Camp)	22/9/2021	03
8	Cycle Rely On Gandhi Jayanti	2/10/2021	35
9	Pre Rd	12/10/2021- 21/10/2021	01
10	Leadership Development Workshop By Sp University	13/10/2021- 14/10/2021	05
11	Guest Lecture On Homeopathic	18/10/2021	160
12	F.Y. Orientation	18/10/2021	188
13	Know Yourself By Fun Activities	27/10/2021	60
14	Vaccine Programme	1 st Week Of October	65
15	Karyakarta Prashikshan Shibir At Vadodara	9/11/2021- 13/11/2021	2
16	Gita Jayanti	14/12/2021	3
17	National Integration Camp Coimbatore Tamilnadu	14/12/2021- 20/12/2021	3
18	Sahsik Pravrutti	15/12/2021	130
19	Essay Writing Competition	20/12/2021	35
20	One Day Camp	22/12/2021	67
21	Best Out Of West At C.S.C	25/12/2021	15
22	Suryanamaskar Challenge	1/1/2022	40
23	Cloth Donation Drive	3/1/2022- 7/1/2022	100
24	Swami Vivekanand Jayanti Quiz	12/1/2022	130
25	National Youth Festival Puducherry Online Event	12/1/2021	150
26	State Republic Day Parade Camp 2022 Gir Somnath	15/1/2022- 26/1/2022	01
27	Road Safety Quiz	16/1/2022	158
28	National Human Rights Webinar	1/2/2022	100
29	7 Days Camp At Pariej	17/2/2022- 23/2/2022	77
30	Mega Blood Donation Camp	3/3/2022- 4/3/2022	05 45
31	NSS Office Cleaning	14/3/2022	23
32	Poster Making Competition	12/3/2022	7
33	Thalassemia Test	23/3/2022	80

8. SPORTS CLUB

Ex-Officio: Dr. J.K.Chauhan

Students Secretaries: Mann Kotadia and Prachi Shah

Sr.No	Event Name	Date	No. Of Participants
1	Inter College Badminton Tournament (Boys) 2021-22 at Sardar Patel University (RUNNERS UP)	18-09-2021	06
2	Inter College Football Tournament (Boys) 2021-22 at Sardar Patel University (RUNNERS UP)	20-10-2021	18
3	Inter College Basketball Tournament (Boys) 2021-22 at Sardar Patel University (RUNNERS UP)	08-12-2021	12
4	Inter University West Zone Tournament	2021-22	11
5	All India Inter University Tournament 2021-22	2021-22	3
6	Our College 93 Boys and 46 Girls have participated in various Games of Sardar Patel University 2021-22	2021-22	139
7	Total 13 boys team and 195 players was participated in our College inter Class Cricket league VPCL Tournament 2021-22.	17 to 21-02-2022	195
8	Total 2 Girls Team and 32 players was participated in our College inter Class Cricket league VPCL Tournament 2021-22.	17 to 21-02-2022	32
9	In the khel Mahakunbh 2022 organized by the Government of Gujarat, Our College will participate in 43 boys and 14 Girls. In which team event is Football boys and Volleyball boy's team.	2021-22	57

9. DEBATE CLUB

Ex-Officio: Dr Charudutt Gurjar

Student Secretary: Ms Sakshi Dehri

Sr.No	Event Name	Date	No. of Participants
1	One- to One Debate Competition was held on the topic "Has the time come to remove Reservation from education and Jobs?" The winning Group had the following members: Dhruva K Kapadi, Keyur R Vaghela, Hiral D joshi, Bhunit Devnanai, Preet Dalal, Devanshi J Goswami, Isratbanu Malik	2021-22	14

10. WOMENS DEVELOPMENT CELL

Convener: Ms. S.K.Menon

Sr.No	Event Name	Date	No. of Participants
1	A guest lecture was delivered by Dr. Rekhakumari Singh, Dean Faculty of law , SPU on the topic 'sexual harassment at the work place	16-9-2021	Students of 3 rd & 5 th semester.
2	Attended International Women's Day celebration at ADIT (New Vallabh Vidyanagar)	8-2-2022	16
3	A self defence training programme was conducted for the girl students of V.P & R.P.T.P Science College. It was conducted by Mr. Chetan Fumakiya of Pratibha Academy	14-3-2022 to 17-3-2022	60

11. REPORT OF VPM IAS STUDY CLUB

Coordinator: Dr. A. R. Jivani Students Secretary: Ms. Sejal Ravat

Sr.No	Event Name	Date	No. Of Participants
1	An orientation program was organized by the club to provide information and guidance on the competitive examinations after graduation. Sahil Sir and Sweta Madam, faculty of CVM IAS academy (Vallabh Vidyanagar) delivered the inspiring lecture.	26-10-21	All students
2	A seminar was organized by the club. Raju Bharavad (TYBSc) guided the students about various Career Options after graduation.	16-12-2021	All students
3	Our college library has many useful books for the preparation of competitive examinations. To aware the students' aspirants, the club organized a book exhibition in our college library	5-02- 2022.	All students
4	A seminar on "Strategies for success in any competitive examinations" was organized by the club. Mr. Shubhankar Mishra, a faculty of the UPSC examination guided the students' aspirants.	16-03-2022	102 students

12. PARENT & COUNSELLING CELL

Coordinator: Dr Charudutt Gurjar

Members: Mr H B Madhwani, Dr M H Patel, Mr Aniket Shukla, Dr G M Patel

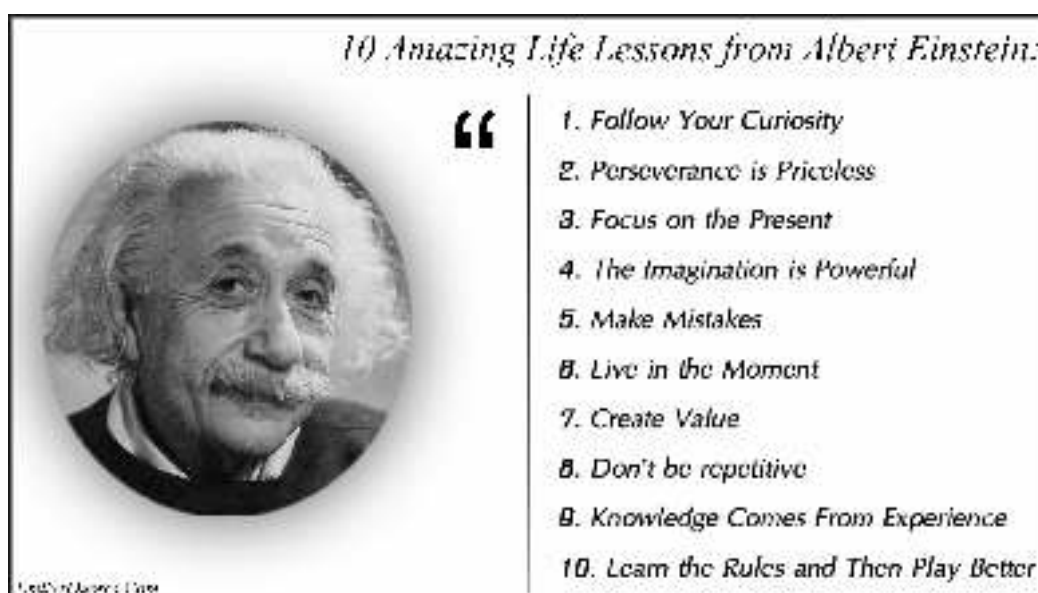
Sr.No	Event Name
	<p>The Cell organized the following activities:</p> <ul style="list-style-type: none">• Online Orientation Programme for all FYBSc Students and Parents.• Formed counselling Groups of 35 students each of FYBSc and online Counselling was conducted by allotted counsellors every week.• Conducted Parent-Teachers Meeting in each Semester.• Conducted an Online Seminar Subject Selection for FYBSc Students to guide them for making an informed choice at SYBSc.

13. EQUAL OPPORTUNITY CELL

Coordinator: Dr Vipul Kataria

Members: Dr T B Darji, Dr L M Katara, Mr Vijay Pijwala, Mr J K Parmar

Sr.No	Event Name
	<ul style="list-style-type: none">• Online Orientation Programme for SC,ST, Minorities and EWS students of FYBSc Students to give information regarding Govt. Scholarships and other schemes) by Mr Amit Patel, Director, Social Welfare Officer, Anand on 9th September 2021



“My Success Story”



Dr. Bharat Gami holds a master's degree in Plant Science & Doctors of Philosophy in Bioscience with 16 plus years of experience in R&D and NPD with a track record of initiating projects and executing them in self as well as in collaboration with other scientists and organizations. I have developed an a strong expertise in R&D, NPD & QC technology in the field of Bioenergy, Environment, Agriculture, Herbal pharmaceutical and waste to energy. I belong to the Patel Farmer Family from Palanpur, Banaskantha, North Gujarat. From my father (Virabhai Gami) and mother (Revaben Gami) I learnt a basic value of life with a great emphasis on of humanity. My family has worked hard and struggled a lot for my education at V.V.Nagar.

I completed my secondary and higher secondary education from Shri M.B. Karnavat High School, Palanpur. I joined V P & R P T P Science college in the Second year after having completed the first year from R.R.Mehta Ccollege of Sscience, Palanpur., and completed my graduation with Botany in year 2002. It was during my years at V.P. Science College that thoughts, understanding & vision for life was completely transformed.

After my graduation from VP, I joined the Bio-sciences Department for the Post-graduation with Botany. Due to my strong scientific base & curious nature become a stepping stone for PhD. I I was fortunate enough to have a paid dissertation from an Aurvedic company in Nadiad; Actually that was my first exposure to the world outside the classroom. To support my Ph.D program, I joined the Ipcowala Santram Institute of Biotechnology & Emerging Science (ISIBES), Dharmaj, Anand as a junior scientist. Within a three and half year, while working at ISIBES, I was able complete my Ph.D in the year 2008 with specialization in Phytochemistry. During my working tenure at ISIBES, I came across various commercial transformations of scientific works which prepared me for the corporate world. In the May 2008, I joined the R&D division of Claris Group and lead a new business vertical in the field of renewable clean energy under the trade name Abellon Clean energy Ltd. So my career as Phytochemist in Petlad Mahal Arogya Mandal Pharmacy took off in a HPTLC based quality control marker for six medicinal plants. Followed by, working as Research Scientist & Co-ordinator at ISIBES and I successfully handled several labs & on-field research projects like; Algal biotechnology, Plant tissue culture, Liquid fertilizer, Solid-state fermentation, Organic fertilizer, Microbial screening & testing, Isolation of specified organisms and its cultivation and Tech – transfer.

Following are some of my key achievements in my professional journey, which I strongly believe that it would possible only because of the basic core learning I learnt & imbibed at V.P. Science college. I do not have words to thank all teachers and professors involved in this learning journey.

- Recipient of Hari Ohm Ashram Award for the best research paper in Agricultural science – 2008.
- First prize for oral presentation on Biomass Pelletization – a step towards energy independence during the National Science Congress, held at Gujarat University- 2010.
- Recipient of USA State Government Sponsored International Visitor Leadership Program (IVLP) fellowship for “US Foreign policy and Energy Security” – 2013.
- Registered 29 patents in the field of biomass, bioenergy and eco equipments.
- Published 40+ technical papers in national & international journals.
- Assisted dissertation work of 30 plus students for their master degree.
- Characterized more than 3000 biomass & 2000 waste sample for energy application.
- Successfully completed DINplus certification for wood pellets & Onecert Asia Agri certification for pelleted fertilizer.
- Member of Bureau of Indian Standards (BIS) under PCD 7 team for development of Indian Solid Biofuel Standards (pellets).
- Setup QC Lab for wood based fuel pellet production plant (120 TPD) & for Agri biomass based fuel pellet production plant (200 TPD).
- Setup QC lab for biomass based power plant – capacity 9.9 MW.
- Established a central laboratory facility for testing of Fuel pellets, Biomass, Fertilizer, Soil, Water, Coal, Animal Feed, RDF and MSW.

Currently I am Sr. Manager - R & D, Abellon Clean energy Ltd., Abellon Group, and leading R&D work in the field of renewable energy & agrisciences. I am looking after research, quality control and new product development related work. Along with his technical skills, I have to provide strategic leadership as a Principal Investigator to several research projects and various corporate assignments.

I am grateful to all my respected teachers & mentors in the College. All biology department faculties have an indepth knowledge with excellent skills to infuse confidence about one's abilities. I would especially mention Dr. J. P. Patel for his all time support, courage and continuous mentoring both in personal and professional career. That is why I say that the two years at VP was actually the best time of my life and I will always remember. Time flies fast and life becomes busy with social and professional responsibilities. However, in spite of this busy schedule, I always fondly remember my golden days at V. V. Nagar and especially in the V. P. Science College which groomed me for this responsibility.

Dr. Bharat Gami

Sr. Manager - R & D, Abellon Clean Energy Ltd.
Mo; 9925171176

Dr. Paresh Purohit

[Ex-Principal Scientist, CSIR-Indian Institute of Integrative Medicine
(Regional Research Laboratory) Canal Road, Jammu.]

Currently: Founder and CEO, PR Foundation (Registration Pending)

I was born (August 1950) and brought up in Mahesana. My father was a businessman and my mother was a social worker for the sole objective of the upliftment of women in the society. I studied at The New Progressive High school up to 11th standard and took admission in Pre University Science in VP Science College in 1965. I used to stay in the Square Hostel. The breakfast was alright but lunch and dinner were unpalatable. Initially for a month or so I experienced a lot of home sickness and almost decided to quit studies since I didn't like my roommates. The turning point for me came when I was given sympathetic counseling and very strong moral support from Late Prof. Y.S. Dave Sir and Prof. B.R. Shah Sir. I am indebted to both of them.

NCC was compulsory for two years which taught me the discipline and almost changed my daily routine. There used to be periodical tests and regular tutorial classes for Science subjects which gradually made me to concentrate more on my studies. I could not score very good marks in periodical tests but improved little bit in first term exam. I subsequently passed final exam and continued with F.Y.B.Sc. Biology. I changed my hostel and had a very good roommate who was from Nairobi and due to his support I was successful in making a good friend circle. Among them many had joined after finishing their studies in Cambridge. Their spoken English was commendable and all of them had joined Mathematics group for their inspiration to join engineering stream.

I didn't score well as expected and finally decided to continue my further studies either at Ahmedabad or Baroda. I preferred Baroda and joined S.Y.B.Sc in the Department of Botany, MS University with Principal subject BOTANY with subsidiary subjects as Chemistry and Zoology. I improved a lot in my studies and scored highest mark in chemistry. In final year we were 28 students of which 08 passed out with first class and I was ninth candidate who lost first class by only 8 marks. Again this was a greatest shock for me to find out what went wrong and where.

I continued for my M.Sc. in Botany and determined right from the beginning that this time I will not take any chance to miss my aspiration and desire to be FIRST. By the grace of GOD, my parents and very strong support from my respected professors for extra learning tips from time to time I stood First in final exam of Previous M.Sc. This achievement and success of mine was very much admired by Head of the Department and many senior professors. Having got this result I came to VVN and meet my both the mentors who inspired me to maintain the same with more hard work and dedication. I was selected for specialization in Plant Physiology and Biochemistry. During my final year I started working in Plant Physiology and Biochemistry lab for preliminary research project through which I got the basic training for my aptitude in research. Finally I scored highest marks which was a record breaking for me and also for

the department that since inception of post graduate degree program. I was honored with Prof.A.R.Chauhan memorial prize for the year 1972.

It was a proud moment for me when I got selected for my first job at RPTP Science College in the Biology department. I loved teaching and simultaneously continued my interest in research also. I also had an opportunity to attend Summer Institute training program in Plant Physiology for techniques and experiment designs in advanced research models and methods organized by Late Prof. .J.J.Chinoy at Gujarat University, Ahmedabad.

Meanwhile in July I was informed by my head, Dept. of Botany, MSU regarding Malti- Chem Research Centre @ Nandesari, Baroda. I applied and got selected as Research Assistant (Botany) and joined in Nov 1974. I was directly working under the Director for all my research assignments and activities as team member in different projects. Our research center was recognized by DSIR and funded by Camphor & Allied Products Pvt. Ltd and its associated group of companies. Our Director Prof.Dr.Sukh Dev, "Padma Bhushan" is known in the field of Natural Product Chemistry worldwide as a legendary scientist in research of terpenoids and contribution for the development of Guggulsterone.

I got the opportunity to work on development of Agro-technology and value addition in medicinal plants such as Guggal (Commiphoramukul), mainly for the standardization of Guggal oleo resins from various indigenous resources as well as imported samples. Essential oil production from Ocimumsp.(19 varieties), and Cymbopogon sps.(15 varieties), for value added perfumery chemicals. We also took up project on oleo resin enhancement with the injection method treatment of plant growth regulators on Pine tree forests in Himachal Pradesh and demonstrated in collaboration with Indian Forest Research Institute Dehradun.

An experimental bio-assay laboratory set up was established to study certain synthetic molecules as well as isolated compounds from natural resources for their potential as plant growth regulator.

During the sabbatical from Malti Chem Research Centre, I joined the Dept. of Botany at University of Rajasthan, Jaipur for my Ph.D. degree in plant tissue culture. My research assignment was to study the production of secondary metabolites in callus cultures of medicinal plants such as Yucca aloefolia, Abrus precatorious and Ocimum sanctum.

In August 1989 I joined CSIR-Indian Institute of Integrative Medicine, Jammu as Scientist under Quick Hire Scheme which was later regularized as Scientist-C and got my superannuation as Principal Scientist in August 2010. I worked as team member of various projects as under:

- **Development of "ELEROSA" an elemicine and isoelemicine rich Cymbopogon sps; for its potential as value addition and to utilize it as import substitute of starting material for active ingredients of antibiotic of first order.**

- **DBT sponsored bio fertilizer project in collaboration with Pant Nagar Agriculture University for Rajma and French beans mainly grown as pulse crop in Hilly region of Jammu & Kashmir.**
- **Tissue culture studies of *Taxus wallichiana* (Himalayan Yew) and *Nothopodytusfoitida* for the production of their anti-viral active principals.**
- **Conservation of endangered medicinal plants sponsored by National Medicinal Plant Board** For *Polygonatumcirrhifolium*, we developed the tissue culture media for quicker and successful **germination. This composition has been patented in India, US other four countries.**
- **Bioassay set up to study the potential of certain byproducts as well as synthetic molecules as Plant Growth Regulators.**
- **Team member for CSIR project on Traditional Knowledge Digital Library (TKDL) for compilation of literature at a common platform for easy access and official records to protect them as prior art documentations.**
- **Planning Monitoring and Evaluation Division of IIIM : Intellectual Property Rights (IPR cell)**

Team member and facilitator for assessments of research outcomes for its patent filing in India, USA and European countries as world-wide PTC application. Our motto was to seek intellectual property rights and protect our invention/innovation.

From August 2011 to May 2014, I was appointed as coordinator for M.Pharma (Regulatory Affairs) at Department of Pharmaceutical Sciences, Saurashtra University, Rajkot. Our major focus in the curriculum was to teach and train the students regarding all the regulations required in the area of Drug discovery and development and phytopharmaceuticals inclusive of GMP, GLP, Quality assessment and assurance as per the norms and standards prescribed by DGCI, India. We also gave thrust to make the students understand the importance of Intellectual Property Rights and how best one can adopt the practice of approach in research methodology. We also trained them for how to read a patent document and envisage the research projects and assignments.

Current Activities in PR Foundation (Registration Pending)

- **Consultancy service provider for startups innovative products in the field of pharmaceutical sciences.**
- **Resource facilitator for Medicinal and Aromatic Plants and its technology development and transfer.**
- **Projects monitoring and evaluation for value addition**
- **Patent search facilitator and assessing the patentability potential in coming time for its monetization**
- **Quality audits for validation and performance qualification inclusive of stringent compliance of regulatory norms for pharma industries.**

Dr Anilkumar Kantilal Patel

Group Leader (R&D)

O2h Discovery Pvt. Limited, Ahmedabad

anilpatel2010@gmail.com

9825206580

I was born in a small village Govindpur of Sabarkantha (Now Arvalli), in a middle class family in 1981. I have spent my childhood in a joint family comprising of around 45 members. My family was mainly involved in business and farming. I did my primary schooling from government school in my village followed by secondary schooling in P.G Mehta High School in Malpur followed by higher secondary schooling in Modasa.

After my schooling with lots of hope and aspiration, I decided to move to Vallabh Vidyanagar for graduation in the year of 1998. I took admission in V.P Science College and completed my graduation in chemistry in the year 2001. My experience with this college was admirable in terms of both academics and personal growth. All my faculties supported me at every crucial stage of my studies that gave me opportunity to perform well and bag a Gold Medal (Golden Jubilee Fund Award for T.Y BSC Chemistry). I will never forget the pivotal contribution of the Chemistry Department faculties especially Dr. B.C Dixit, Dr. K.D. Patel and Dr. G.K. Patel. Those golden days laid a strong foundation for my upcoming career. I truly feel very proud of being an alumnus of this great college.

I pursued my Masters in Organic Chemistry. Thereafter I worked with Alembic Research Centre Vadodara as a Research Associate for almost 1.4 years in the year of 2003-04. I did my Ph.D. in Synthetic Organic Chemistry under the guidance of Prof. D.I. Brahmabhatt in the year of 2009 from Department of Chemistry, Sardar Patel University, Vallabh Vidyanagar. After the completion of my Doctorate, I moved to South Korea for my Post-Doctoral Research and completed Post Doc. from Kyunpook National University in the year of 2009-10. I joined Piramal Discovery Solution (Formerly Oxygen Bioresearch Pvt. Ltd.) in 2010 and worked there for 6 years. In the year 2016 I moved To GVK Bioscience Pvt. Ltd. Bengaluru where I worked for almost 4 years as Senior Scientific Manager and was mostly involved in leading the scientific team for various drug discovery projects for Multinational Companies. Recently I have joined O2h Discovery Pvt. Limited Ahmedabad as a Group Leader (R&D) and leading the scientific groups for various drug discovery projects for Multinational Companies.

The journey from a small village to present situation would have not been accomplished without Vallabh Vidyanagar especially V.P. Science College. All the recognition and respect which I get at the present day would have not been a reality without my education.

I would like to congratulate VPM family on the occasion of Platinum Jubilee and wish a grand success for the Platinum Jubilee Celebrations.

Anil Patel

A Proud Alumnus of V.P Science College

HARSHADBHAI B PATEL,
UK

I am Harshadbhai Bhikhabhai Patel from Umreth. For those who don't know, Umreth was once a very famous and prosperous town, guarded by strong walls and gates and is still a vibrant town. I currently live in London, UK and have done so for the past four decades. However, let me first recall my early life in India.

I spent my first six years in a tiny village known as Malai (near Dakor), where we have agricultural land. I started my Primary Education there but due to the lack of essential facilities in the village, my parents moved me in the second year to Sokhada, where I successfully completed the primary education. I made several friends there as I was elected as a monitor every year and took active parts in dramas and debates, all of which gave me the impetus to do well in life.

I subsequently moved to Dakor, where I completed my secondary school education with ease and then joined the V.P. Science college for science degree at the age of 16. I did face some difficulties initially in the college, being away from the family, not having home food and being taught in English (not familiar with) and above all being bullied constantly by senior students. However, with my parents' words that education is vital in life kept reminding me and I gathered the strength, persevered with my resolve and weathered the storms. I soon made many friends and won the love and confidence of teachers as well

As one of the alumni, I am so honoured and privileged to be given the opportunity to share my profile on this momentous occasion of Platinum Jubilee celebrations of Vithalbhai Patel Mahavidyalaya (Science College): a true milestone for the prestigious Institute, where I was fortunate to have studied and attained my first degree in B. Sc.- Chemistry, some fifty years ago.

With the passing of time, I began enjoying the education and playing leadership roles in the college. I was elected as a Class Representative (C R) and a General Secretary (G.S.) at the time when Anand, Bakrol, Karmsad, Nadiad and Dharmaj were very dominant towns with their full muscle power, whilst there was not a single student from my town in the college to support me. I conquered all fears and marched on.

I was also selected from several other candidates, as a Science Association secretary and performed my duties with enthusiasm. V. P. Science college was reputed as a place for serious study as the students were aspiring to be doctors, Engineers, Scientists etc and therefore sports arena was not on their priority list.

With some backing, I instilled enthusiasm, motivated, and inspired them to take part in sports activities.

The college went on to perform very well, earning University Championships in Volleyball, Table Tennis and Badminton by girl's teams. The Boys' teams also performed well and reached Semi Finals in Cricket; three players were selected for the Sardar Patel University team. We won B.D. Patel Elocution competition Shield held by the

University. We also won Bardwan Trophy and Best Shooting team in Gujarat. One additional pinnacle of my leadership was staging a play titled BAPUNA SAALIYANA, written by my Magazine Secretary Dinesh Savla and directed by the Science Association Secretary Dinesh Patel who was also a college and university cricket team player. I was fortunate to gain full support, encouragement and guidance not only from students but also from extremely well respected Professors such as the Principal Prof J.G. Chauhan, C.S. Patel, R. P. Patel, T. C. Shah, V. C. Shah, Dr H. R. Dave, Dr. B. H. Patel and the mentor Dr B. R. Patel.

Basically V. P. Science College laid a solid foundation and paved the way for my future achievements and accolades. The college also provided me with an opportunity to meet, discuss and learn from a remarkable person late Dr H. M. Patel, I.C.S, a Chairman of Charutar Vidya Mandal who inspired me to work hard for excellence.

After the Science degree, I studied for LL. B at Anand Law College and after qualifying, started my legal practice in various Law Courts with an office based in Umreth.

I then got married, and, as aforementioned, moved to London. I studied further and qualified as a Barrister. I am thrilled to say that I had the opportunity to qualify as a barrister from the same Inn as Mahatma Gandhi and Pundit Jawaharlal Nehru.

I then moved back to India and commenced legal practice in the High Court of Gujarat, but as fate would have it, I had to move back to London after a brief stay in India.

In London, I practised as a barrister and also spent a great deal of time participating in Social and Charitable organisations and held various posts. I am very fortunate and proud to mention that I served as a Secretary, President and Trustee and played a vital role for nearly three decades in an organisation known as Shree Sattavis Gam Patidar Samaj (Europe). Whilst I was the president, we acquired nearly two acres of land at a very prestigious location in Wembley and built an enviable state of the art modern community centre.

I also began taking interest in politics as well and joined the Conservative Party in contrast to the majority of the Indians who supported the rival Labour Party. I became keen in political activities and was selected by the Conservative Party to contest local election. Although I lost, I am pleased to say that I made my party proud by gaining an 8% swing for the first time in my party's favour.

In 1996, I was selected to contest a by-election in an area dominated by whites. I won that with a majority and since then **I won four more elections in a row. I served the Conservative Group on the London Borough of Brent as a Deputy Whip, Deputy Leader and a Leader. I also served on various Committees of the Borough and task groups, as a Deputy Mayor and was unanimously elected as a Mayor. My Mayoral Term was very successful.** At the beginning of my Mayoral term, I was privileged to participate in the

opening of the world famous Football stadium in Wembley, in the presence of VIP guests including His Royal Highness Prince Williams, the PM, Cabinet members, MPs and other dignitaries and more than 90,000 spectators. In the concluding part of my tenure, I was given the privilege to release the London leg of Beijing Olympic torch for the 2012 games held in London.

I raised money for two charities; St Lukes Hospice (Kenton, Harrow) and Shree Santram Mandir Charitable Trust for the benefit of B.D.Patel General Hospital, Umreth.

In 2010, I was selected to contest a parliamentary Seat for Brent North in London. I lost the election against a former minister then of her Majesty's Labour Government but won the hearts of many including my opponent and we are friends till today, despite our beliefs in opposite political philosophy.

I served as a School Governor in three schools, Infant, Secondary and Primary.

After serving for three decades of my life in political life and extending a hand of help to many, I have finally decided to retire from active life and spend my time pursuing hobbies, such as reading books, watching sports and other interesting TV programmes.

I am quite content with what I have achieved in my life, coming from a humble beginning but all this would not have been possible without the inspiration I got at each stage of my life from and the support given to me by the parents, teachers, colleagues and friends and needless to say the wife and the daughters. I remain particularly indebted to the VPM college for paving my way to the crescendo in my life.

I take this opportunity to congratulate all those who were and are affiliated to the College in any form, may it be as a student, teaching staff, administrative staff, or in whatever capacity, on this very special occasion of Platinum jubilee Celebrations.

I extend my heartfelt thanks to the Principal Dr Bhavesh Patel and his team for giving me this opportunity to relay my story on the grand occasion of the college celebrating its Platinum Jubilee.

I am also very grateful to Renukaben for keeping me regularly informed about the developments pertaining to the College.

Best Wishes.

HARSHADBHAIB PATEL

Name: **Vishal Anand**

Designation: **Manager – Human Resources (Siemens Group)**

Qualification: **B.Sc (Electronics), MSW, LLB, DLP**

Mobile No: **9099733733**



I was born in small town of Gujarat, Godhra on 26th January 1983. I was lucky to be a part of caring and high valued family. Like other parents my mother & Father always supported me by giving the best of education as possible. I am blessed with younger Sister who is now into teaching profession and happily married at Ahmedabad. I am happily married and blessed with two kids.

My biggest strengths were my Grandparents, especially my grandfather. He was strongly patriotic and possessed high values like Integrity and Patriotism. My Grandparents were my Mentors. They helped in my overall development and taught me Values like Integrity, Ethics, Honesty, Truth Discipline, etc. These values helped me to live life with Honor & Dignity and refrain from anti-social elements.

I did my schooling from Rotary English Medium School & Saint Arnold High School, Godhra.

It was huge challenge for me to decide on further studies that can provide me platform for overall development and knowledge at large. After many inquiries and taking feedbacks from educational specialists, I decided to study in one of the most reputed colleges of Gujarat, VP Science College, and Vallabh Vidyanagar. It was my honor to secure admission in VP Science College. It was like my dream come true.

The first thing that attracted me at VP Science College was the huge campus with a beautiful sculpture of Lord Nataraja main gate and it was covered with a lush green belt which was so mesmerizing and giving positive vibes for education. I took admission in VP Science in the year 2000 and graduated in 2003 in **“Electronics”**.

There is a perception among college students that lectures are not compulsory and one can come only to take exams and that's all. But in VP Science, it was just opposite, 80% attendance was compulsory, and one is always questioned for remaining absent on any day. This inculcated the values of being punctual and never miss on your deadline attitude in us.

The biggest strength of VP Science is the **“Faculty”**. They have one of the best faculties who are experienced and possess in-depth clarity on their respective subjects. They give personal attention to the students who requires some additional efforts in studies. They are so affable, that we can approach them anytime for clearing our doubts.

VP Science is very true to their Vision “To educate, empower and prepare for globally competitive human resource “and for this they always motivated us to take part in extracurricular activities. The college participated in various events like Volcano Youth Festival, Sports Event, NCC, NSS, Inter – College Competition and so on and so forth. I was fortunate enough to represent my college in different events and even win trophies for them. This gave me an exposure to outside world, and I met a lot of different people during these events. This helped me to build my confidence, which helped me to know my strengths and weakness.

VP Science played a very vital role in molding my career. During my three years in VP Science, I recognized that my strengths were good communication skill, decision making skill and managing people at large. This gave me way forward and I opted for

Masters in Social Work (MSW), from Sardar Patel University, VV Nagar. After completing my Masters, I did my LLB and DLP from Sardar Patel University.

I started my career in a Steel company as a Management trainee. With all the acquired knowledge and experience; I started moving forward horizontally and vertically. I got the chance to work with various reputed companies and MNCs like Jubilant Life Science, FAG Bearings – Schaeffler Group, J K Group, Coromandel International and currently working with German Multinational – Siemens Gamesa Renewable Energy, as Manager HR.

My journey from being a management trainee to the leadership roles and continuing forward, has led to personal and professional growth. My job encompasses people management, manpower planning, hiring the talent, developing the talent, industrial relations, grievance handling, policy formation, training and development, rewards and recognition and many more.

My success is the result of blessings from almighty and my parents. However, VP Science laid a very strong foundation of my career by teaching me the values like accountability, believing in oneself, Honesty, Hard work and moreover being Respectful and Compassionate with others.

At last but not the least, I can still hear the cheering of the crowd when we used to win at Youth Festival.

“Chocolate Candy Lollypop, VP Science on the Top”

Thank You.

Vishal Anand



Dr Deepak Mishra

Sr. Manager, Performance Material Research Centre (Coating division) ,
Aditya Birla Group
Navi Mumbai.

I feel honoured to get an opportunity to share my success story; a simple one

I come from a family where my father was a railway employee in Dahod, a small town of Gujarat. I lived there till the completion of class 12th with my two younger siblings, grandparents and parents in a multicultural and multi religion society. After seriously struggling in studies initially, I could only cope-up with studies and completed my schooling from Hindi medium school due to most valuable support from my grandfather who was a retired DAV school teacher, who also, additionally explained and inculcated everlasting spiritual values in me. Another valuable aspect of my initial learning was my association as a Boy Scout for 7 years with Bharat Scouts and Guides which rooted in me, the value towards social service and ultimately the service to our proud nation.

Regarding my joining V. P. Science college, I would credit it to my Ph.D. guide, Late Shri (Dr.) V. K. Sinha, whom I met first after coming to Vallabh Vidyanagar and he unbiasedly explained all the options available looking at my board results and interests. I took my time and chose to join the Industrial Chemistry (V) programme. Dr. V. K. Sinha and the present head of IC Dept. Dr. P. M. Patel were the two teachers who had most influence on me in the college. Two life changing learnings during college I got were from Dr. Patel who gave the class (and me) firsthand account of immense power the of subconscious mind during studies which helped me in remembering and solving problems. Dr. Sinha explained the students about practical aspects of science in our real world. I got rich experience of actual industrial processes with summer training and visits organized by the department with to understand the actual connection of theories with its practical applications. With my interest in sports, I got selected by the college for several sports activities and also got an opportunity to lead the V. P. Science college football team in third year. I completed my third year at college with first Class and decided to pursue the Masters Programme and became the first person in family to do so. Visiting Sardar Patel Memorial (Karamsad), APC and Lambhvel temple mandirs, VU Nagar, other universities and departments are some of the most cherished memories of my stay in V VNagar.

After looking at future value prospects and of course about the interest I generated in the subject at V. P. Science college, I took admission at Institute of Science & Technology for Advance Studies (ISTAR) for M. Sc.in Industrial Chemistry. The program challenging and I kept the tab on fundamentals about chemistry even from 10th grade text books and rich library which gave rich rewards. With a good amount of support from teachers (Dr. Merlin Thomas & Dr. Jigar Patel) and friends my hard work resulted in my selection in first campus placement itself in Dishman pharmaceuticals.

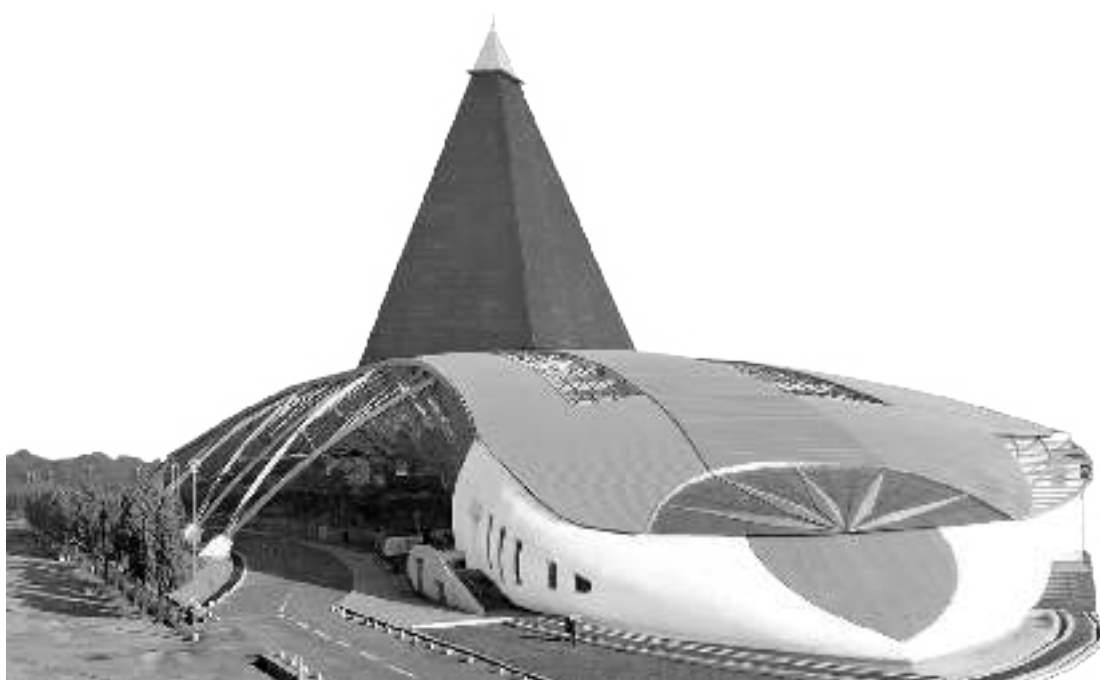
As I was inclined more towards fundamentals and research work, I tried for Ph.D. with initial success in entrance test at ICT (Matunga) and other places, however, at the end I focused on my liking of polymer and after almost a year of search got lucky to study under one of my favourites teachers Late Dr. V. K. Sinha. This was life changing experience where I saw many ups and downs in personal and work life but due to an honest, strict and committed guidance from my guide, I worked on my subject of polyurethanes and with my seniors in field of polymers in pharma, I could publish 6 papers in various international journals.

As my first job, I got selected in Pidilite Industries Limited (Mumbai) where I worked in the field of emulsion polymers for 4 year and left as Section Head to join a US MNC, Behr Paint Company in Pune in R & D department. At Pidilite, I got an opportunity to visit Queen's University, Canada for research purpose and for official work at Behr, I was fortunate to help my team at company's main R & D and HQ at California, USA by visiting/working in R & D lab and visiting other places in USA for research purposes as a Scientist. At present, I am working as Sr. Manager in Performance Material Research Centre (Coating division) of Aditya Birla Group in New Mumbai. I own a home in Pune where I am living with my family which is again a hub for studies, knowledge and culture like Vallabh Vidyanagar.

I bow to my teachers who actually made me a person ready to compete in this challenging world.

With sincere thanks & regards to all my teachers,

Dr. Deepak Mishra



Dr. Jinya John

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The 3 years (2008-2011) spent at V.P. & R.P.T.P. Science College is something that I still cherish and as I write this, I feel I am reliving those days. A deep sense of gratitude to the college hovers over my heart as it's the place that helped and taught me to spread my wings. Nature reveals that learning to fly is a process and is not attained in a day; in the same way as the famous saying goes "Rome wasn't built in a day". Indeed, in this process of learning, the role of this college is beyond words.

Before sharing my experience at the college, I would like to provide a brief introduction of myself. I am a native of Kerala, India and am currently residing in Brittany, France. A major part of my schooling was done at St. Joseph's Secondary School, Visakhapatnam, A.P. Later in the year 2008, I joined V.P. & R.P.T.P. Science College to pursue my B.Sc. After that, I obtained my degree in M.Sc from the Department of Physics, Sardar Patel University in 2013. After the completion of my Masters course, I joined Space Applications Centre (ISRO), Ahmedabad and worked as a Research Fellow during 2014-2019. Finally, I obtained my Ph.D. degree in the year 2020. Currently, I am working as a Post-doctoral researcher at the Center for Studies in Satellite Meteorology (a research lab of Meteo-France, CNRM, CNRS) in France. My area of research is understanding the properties of atmospheric clouds using satellite remote sensing techniques. It is basically about the interaction of radiation with the atmosphere; and mainly requires a knowledge of radiative transfer theory and meteorology, thus forming an area of interdisciplinary research.

Looking back, I fondly recall that the role played by the college, especially the Physics Department, was very significant in shaping my career. It's the place that helped me take my initial steps and broaden my perspectives for the future. At this juncture, I remember the mentorship and guidance of every professor who taught me during the first year of my B.Sc. After the first year, the next two years were really crucial from my career point of view, where I chose Physics as my principal subject. The inspiration and support I got during those years are truly indescribable. Each and every professor of the Physics department has equal contribution in helping me strive for my goals. All of their advice was certainly valuable. To further mention, those were the years where I began to dream of pursuing a career in scientific research. This place has given me a wider exposure to the scientific world by providing various opportunities to attend and participate in different programs. At this moment, I would like to specially mention the name of Dr P. M. Patel, Head, Physics Department, whose immense belief in me is one of the grounds behind my progress. I remember how confident he was about me even when I lacked that level of confidence, and it is something that still

amazes me. I truly believe it is he who made me realize certain potentials within me. It was his motivation because of which I did better every time. One of the best traits of a teacher is realizing the inner ability of the students and encouraging them to overcome challenges and make progress in life. Just like him, every professor of V.P. Science College has got this attribute and I am sure they all must have illuminated some or the other student's life in a very special way as it is for me.

Finally, I would say that this college is the first place that instilled in me the confidence to pursue my dreams. It began with successful scientific presentations at research laboratories and other places during the B.Sc. phase, to winning medals and research awards at a later point in life and finally to the point of working at an international level. Yes, I strongly believe that each and every student of the college can reach their goals if an ordinary person like me could. While it is important to stay focused and work hard for the accomplishment of our dreams, the role of our teachers is also equally important. They are the ones who clear our track when there are obstacles along the way. Since we are still in the growing phase, their counsel and motivation plays a huge role in our life. This is my experience and this is also a word for the present students of V. P .Science College. The most important thing above everything is to love and be passionate about what you are doing. Without a doubt, it will lead to your destination.

In the end, my sincere and deepest thanks to every faculty in Physics Department as well as to faculties of other departments who significantly influenced my life. I also take this opportunity to express my gratitude to Dr Bhavesh Patel, Principal and others for giving me the opportunity to share my experience. Certainly, V.P. Science College holds a special place in my heart!!



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Working with SANDESH NEWS, AHMEDABAD as a Sr.Anchor

સફળતા જેમ આપોઆપ નથી મળતી એમ રાતોરાત પણ નથી મળતી, જીવનની એક-એક ક્ષણ, એક-એક ઘટના અને એ ઘટનાને જોવાનો દ્રષ્ટિકોણ જ કોઈ પણ વ્યક્તિને જે-તે સ્થાન સુધી પહોંચાડે છે, મારી કહાની પણ કેંક આમ જ શરૂ થઈ, આજે પણ જેને અંતરિયાળ મનાય છે એવા મહીસાગર જિલ્લાના એક નાનકડા વડાગામ માં મારો જન્મ થયો, ધો. 1 થી 8 સુધી ગામની જ સરકારી શાળામાં અભ્યાસ કર્યો, અને પછી ધો. 9 અને 10 નો અભ્યાસ ગામની પાસે આવેલા લુણાવાડા નગર માં કર્યો, 11માં અને 12માં ધોરણ માટે આંખોમાં સપનાઓ અને જોડે સામાન બાંધીને રાજ્ય ના પાટનગર ગાંધીનગર ની નામાંકિત શાળામાં પ્રવેશ મેળવ્યો, ગામ ભલે અમારું નાનું, ઉછેર ભલે મર્યાદિત સંસાધનો નીવચ્ચે થયો પણ મા-બાપે સપનાઓ નાના જોતા ક્યારેય નહોતું શીખવ્યું, ઉડાન તો હમેશા અમર્યાદિત જ હોય એવું નાનપણ થી હું માનતી, અને એટલે જ ગાંધીનગર જવાનો ઉત્સાહ હતો, પણ ક્યારેય નવા શહેર કે નવા લોકોની વચ્ચે ત્યાં 52 નહોતો લાગ્યો, '12મું ધોરણ પૂરું કર્યા પછી શું !' એ મુંઝવતા પ્રશ્નની વચ્ચે સમય ખેંચીને વિધાનગર લઈ આવ્યો, સ્વપ્નેય ના વિચાર્યું હોય, જેના વિશે ખાસ જાણતા પણ ના હોઈએ એવા શહેરમાં ભણવા આવવાનું થયું, મને હજુય યાદ છે કે મેં જ્યારે કોલેજમાં એડમિશન લીધું ત્યારે સાથે જે પરિચય પુસ્તક આવે એમાં મેં ભાઈકાકા, વિઠ્ઠલભાઈ, એચ.એમ.પટેલ વગેરેવિશે વાંચ્યું, ત્યારે જ મને ખબર પડી કે વિધાનગર કોઈ શહેર નથી, આ તો પૂર્વજો એ આપણા માટે સેવેલું સપનું છે, આ નગરે મને સૌથી વધારે પ્રભાવિત કરી છે, હું સ્કવેર હોસ્ટેલમાં રહેતી, મારી હોસ્ટેલ એટલે એક નાનકડું ભારત જ જોઈલો, અહીંયા અલગ રાજ્ય, અલગ શહેર, અલગ ભાષા, અલગ ધર્મના લોકો એકસાથે રહે, કોલેજમાં પહેલાજ અઠવાડિયામાં પરિચય માટે જ્યારે પ્રિન્સીપાલ અમારા ક્લાસમાં આવ્યા ત્યારે એમણે એક નાનકડી ક્વિઝ જાણે યોજી દીધી અને સવાલો હતા કોલેજ-CVM-વિધાનગર વિશે, નવું કંઈ પણ જોઈએ ત્યારે એને લઈને થતી ઉત્કંઠા - curiosity મને ત્યારે કામ લાગી, મેં પ્રશ્નોના સાચા જવાબ આપ્યા તો મને ઈનામ મળ્યું.. કદાચ બોલપેન આપી હતી મને, આ શરૂઆત હતી V P Science College માં મારી સફરની, અહીંયા ડિબેટ ક્લબ અને ડ્રામા ક્લબ ની હું સેક્રેટરી બની હતી, અને આ બનવા માટે ની સિસ્ટમ પણ બહુ જ સરસ, ફોર્મ ભરવાનું, પછી કેમ બનવું છે સેક્રેટરીએ જાતે સમજવાનું અને પછી ઇન્ટરવ્યૂમાં સમજાવવાનું, મેં અહીંયા અનેક સ્પર્ધાઓમાં ભાગ લીધો, ટેલેન્ટ હંટ થી લઈ એન્યુઅલ ફંક્શન્સમાં એકરીગકર્યું, ઘણા બધા એવોર્ડ્સ મેળવ્યા, યુથફેસ્ટિવલમાં પણ એક પાત્ર અભિનયમાં એવોર્ડ મેળવ્યો, અહીં આ બધું કરતા કરતા જ સમજાઈ ગયું હતું કે હું એક્સિડન્ટલી માઈક્રોબાયોલોજીમાં આવી ગઈ છું, બાકી મારી મંજીલ તો બીજે જ ક્યાંક છે, છેલ્લા સેમેસ્ટરમાં હતીત્યાર થી જ નક્કી કરી લીધું હતું કે હવે જર્નાલીઝમ જ કરીશ, છેલ્લા સેમમાં એસ.પી.યુનિવર્સિટી વતી થી ઓરબિંદો આશ્રમ, પોન્ડીચેરી જવાનું થયું, આ સ્થળે થી મેં મારા નિર્ણયને આખરી મહોર લગાવી દીધી, અને બસ પછી ત્યાર થી લઈને આજ સુધી પાછું વાળીને જોયું નથી.

આજે ગુજરાતના અનેક મુદ્દાઓ પર દરરોજ ચર્ચા કરું છું, અનેક પડકારો સામે દરરોજ લડવાનું થાય છે, સંદેશ ન્યૂઝ માં હું આજે સિનિયર એન્કર તરીકે રાત્રે 8 વાગ્યાનો પ્રાઈમ ટાઈમ શો હોસ્ટ કરું છું, ગુજરાત ના રાજ્યપાલ, મુખ્યમંત્રી થી લઈ દેશની રાજનીતિના અનેક મોટા ચહેરાઓના ઇન્ટરવ્યૂ કર્યા છે, અનેક મુદ્દા ઓ પર ડિબેટ કરીને લોકોના પ્રશ્નોને પરિણામ સુધી પહોંચાડ્યાછે, આજે પણ સામાન્ય માણસ જ્યારે કોઈપણ સમસ્યાથી પીડાય તો એ સૌથી પહેલા મને યાદ કરે છે, મને ખુશી એ વાતની છે કે ચારેય બાજુ હતાશા ના વાતાવરણની વચ્ચે પણ હજારો લોકો માટે હું આશાનું કિરણ છું, એમને વિશ્વાસ છે કે જ્યારે કોઈ નહીં બોલે ત્યારે આ બેન અમારો અવાજ બનશે, પત્રકારીતાનો અર્થ પણ એ જ છે - Be the voice of voiceless, કતારમાં ઉભેલા છેલ્લામાં છેલ્લા માણસનો અવાજ પણ દબાયેલો ના રહેવો જોઈએ.

દરેક લોકોમાં કોઈક ને કોઈક ક્ષમતા છુપાયેલી જ હોય છે, જરૂર હોય છે યોગ્ય સમયે માણસ ને એ ક્ષમતા સમજવાનું માધ્યમ મળે, મને V P Science કોલેજની એક-એક પ્રવૃત્તિમાં એ મંચ મળ્યો, સફળતાની વ્યાખ્યા દરેક માટે અલગ-અલગ હોય, હું અત્યાર સુધીની કારકિર્દી માં સફળ છું, સફળતા ને હજુ ઘણો સમય છે, પણ આ લખતી વખતે હું કોલેજના એ ત્રણ વર્ષ જાણે રીકેપ માં ફરીથી આંખોની સામે જોઈ રહી છું, Freedom of Expression - પત્રકારીતા નો એ મૂળભૂત સિદ્ધાંત શીખવાની શરૂઆત તો મેંત્યારથી કરી દીધી હતી, મારા મતે તમે કોઈપણ સ્થાનેતો જ પહોંચી શકો છો જો તમારામાં કૈંક કરવાની જીજીવિષા હોય..પ્રબળ ઈચ્છા શક્તિ સિવાય કોઈ જ રસ્તો નથી, વિકાસ બંસલ ની કવિતાના એક ભાગ થી મારી વાતનો અંત કરીશ..

मुट्टी में कुछ सपने लेकर ,भर कर जेबोंमें आशाएं
दिलमें है अरमान यही ,कुछ कर जाएं , कुछ कर जाएं।

- Devanshi



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I am **Rajnikant Bhanderi**, born on June 1, 1967. Basically, I am from farmer family (Patel community) and belong to small village Mota Machiyala, Amreli, Gujarat. I studied in a village up to 8th standard and then moved to Amreli city for further study.

I got the admission in VP & RPTP Science College, Vallabh Vidyanagar and completed BSc in the year 1988. As my schooling was in Gujarati medium; I initially faced difficulties in understanding in English medium during FY BSc. But slowly I overcome that by working hard and due to support from friends and very good teaching methods by professor. They used to explain in such way that it was easy to understand and we used to note down each topic and prepare the note. This was very helpful to revise the topic during exam. I secured good rank in final year of BSc in Physics. I really feel proud and privileged to have studied in such a historical college.

I completed the post-graduation in Physics from the Dept. of Physics, SP University, and Vallabh Vidyanagar in 1990.

In the year 1991, I got the job in ISRO, Ahmedabad. Initially I was appointed as Scientific Assistant B. Presently I am working as Scientist SF. Mainly I am working on Remote Sensing and GIS Applications projects. For significant contribution in the field of GIS, received "Indian National Geo-spatial award for the year 2009" from Indian Society of Remote Sensing.

I am a life member of Indian Society of Remote Sensing (ISRS) as well as Indian Society of Geomatics (ISG). Currently, I am a member of executive committee, involved in promoting GIS related activities in the societies by arranging lectures, workshop etc.

For my journey of study and success I would like to give credit to the VP & RPTP Science College. I am proud to be an alumnus of such a historical college. I am **Rajnikant Bhanderi**, born on June 1, 1967. Basically, I am from farmer family (Patel community) and belong to small village Mota Machiyala, Amreli, Gujarat. I studied in a village up to 8th standard and then moved to Amreli city for high school study.

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Ankur John Dabhi

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I hail from a simple family living in a small village of Anand district called “Boriavi”. I was privileged to be born the youngest among three brothers. The youngest kid is prone to get all the love and attention which I received abundantly from my parents and brothers as a child. My father Mr. John Dabhi was the eldest among seven siblings. Being the eldest son, he had to drop out from his graduation to get a job and to look after farms and to carry out other social and domestic and financial responsibilities. My grandpa was a driver in Western Railways and used to visit home only twice in a week. My father sacrificed his Higher Education and accepted an ordinary job in a factory just to look after education and upbringing of his younger siblings. It all started from his dream that 'I will give my sons the best education'. His hard work and dedication were the true inspirations for us to achieve something in life. Even with the nominal salary on the hands, he fulfilled all our needs and requirements as best as he could. My mother Meena, being the eldest daughter in law, had to look after the upbringing of my uncles and aunts just like her own kids. Along with handling those responsibilities, she spent major part of her life to raise us well disciplined and to put strong values and virtues in us. My elder brothers Ajay (Ricky) and Anuj (Bunty) have been my friends and mentors. Having them on my side, I never had to worry about any problems or difficulties in my life. They are my biggest support system.

I got Primary and secondary education from Sardar Patel High School in my own village. This school does not offer science stream after SSC. Therefore, I got admitted in DadabhaiNavroji High School, Anand for Higher Secondary Education. Being a bright student during school, many of my friends and relatives expected me to be an engineer. Engineering was a trending course after HSC Boards during time. My friends and classmates were trying every possible way to get admissions. I on the other hand, wanted to study core science subjects and finally headed for graduation.

Choosing V.P & R.P.T.P Science college of CVM for Graduation was the best decision of my academic career. The campus and environment of the college made significant positive impacts on my academic, social and personal life. Initially I had no friends there as most of my friends joined Engineering. I was the least known student during first semester. After the results of First semester came out, I started being noticed as I topped among six classes. I met a small group of friends who believed in me and supported me throughout Bachelors and Masters. I chose Physics as my principal subject in the second year as it has always been a subject of wonders to me. I was so fortunate to be a student of excellent faculties of Physics Department of the college. They are the reasons why I never find Physics as a tough subject. The knowledge they

imparted helped me a lot in my career building. Conversations and discussions with Head of the department Dr.P.M.Patel inspired me a lot for making a career in Physics. Receiving a gold medal on every annual day for academic excellence boosted my confidence beyond imagination. V P Science college provided me holistic development. I enjoyed all those lectures, seminars, extra-curricular activities, scientific tours, sky gazing, events, annual days and celebrations of college life. In the final year, I got an opportunity to become a General Secretary of students central committee. I learned a lot about team work and leadership there under the guidance of Principal Dr.Bhavesh Patel, Dr.Charudatt Gurjar, Dr.P.M Patel and other faculties of Central committee. On the convocation day, I received two medals from Smt.Anandiben Patel - the then CM of Gujarat. That was indeed a matter of pride for my family and society.

During a scientific visit from VP Science college, I got a chance to visit Physical Research Laboratory. That day I was utterly fascinated by the research work being done there by scientists and research scholars. I was not aware that time that one day I will be a part of this great institution.

After my graduation I joined the masters in Physics at Department of Physics, Sardar Patel University. It was indeed a wonderful academic journey as well. After the first year, I was selected to attend Summer Internship at Physical Research Laboratory. I got to learn a lot about scientific research in that period. This made me feel like working with PRL in future. I opted Condensed Matter Physics as my principal subject in the final year of Masters. Faculties of the department played a vital role in my academical success. Head of the department, Dr.U.H Patel is very inspiring and supporting. On the convocation day, I was awarded with two medals by Dr.O.P.Kohli, the then Governor of Gujarat for securing first rank in Masters. Those Seven Gold medals made me an inspirational person among my family, friends, relatives and society.

During final semester, I came to know about recruitments in Physical Research Laboratory. I applied for the post of scientific assistant. I found it very fascinating as it would give me a chance to work directly under the guidance of the senior scientists. I successfully cleared the entrance test followed by personal interview and finally got short listed. I joined Physical Research Laboratory just after couple of days of completion of my Masters (April 2016). I got placed in the Accelerator Mass Spectrometer (AMS) laboratory under a senior scientist & oceanographer Dr Ravi Bhushan. It was so fascinating that I got chance to work on High energy Accelerators. I learned radiocarbon dating with Accelerator Mass Spectrometer and stable isotope measurements. I got to know about technical and instrumental aspects of the facilities during installation of AMS and stable isotope Mass Spectrometer. Geosciences is still a new field to me. I am privileged to do radiocarbon dating of natural samples like ocean water, sediments, corals, foraminifera, rocks, archaeological samples and Aerosols. I got chances to visit mountains, islands, rivers and oceans for the same. This kind of work made me feel connected with mother nature. And ultimately,

applications of Radiocarbon in the areas like Paleoclimate, climate change, oceanography and pollution made me believe that my work is not just confined to the lab, but has a responsible connection with society and nature. After four years, I got promoted as Senior Scientific Assistant-A in July 2020. I am writing this while on scientific cruise ORV Sagarkanya in the midst of the Arabian ocean as a part of scientific expedition. I look forward to keep serving my Nation, society and Mother Nature through my work.

It is indeed an honour being called “one of the prominent alumni of V.P. Science college”. Three years in this college gifted me priceless memories, knowledge, mentors and friends. I take this opportunity to thank the Principal Sir, faculties and staff of V.P.Science college for their guidance, support and love. I am thankful to CharutarVidya Mandal and Sardar Patel University for providing me the best educational facilities. I am lucky to have such loving and caring Parents and brothers, Thank you. Thanking both grandmas (Maa) in heaven, rest of my family and friends. Finally, Thanks to the almighty who fills me with the power to scale new heights in my life.

Ankur John Dabhi



Name: Nandkishore (Nandubhai) Purushottamdas Patel
(Retd. Chief Engineer of Gujarat Govt.)

Address: 44-B Rajbag Society, Canal Road, Ghodasar,
Ahmedabad-380050

Contact no: 9427607080

Age: 91 years



Student of the First Batch (year 1947)
of V.P. Science College.

Many many thanks to honorable Shri Dr. Bhaveshbhai Patel, Principal of V.P. Science College to select me as one of **Prominent Alumni**.

I am native of Kheda Town in Kheda District and at present residing at Ahmedabad. My father was a government. Servant in lower category of Revenue Department. When Education level was poor in society in his time (1930-1950), under all hardships, he educated all his four sons up to graduate level. With his blessings his four generations are at present happy and enjoying connectivity under what's-app group of I.P. Parivar with memberships of more than 150. I for (Ichchhaba, My Mother) and P for (Purushottamdas, My Father).

I completed primary and secondary education from schools of Kheda, my Home town. I cleared Matric Examination from Bombay University in 1947 getting First Rank in my High School named Edward Memorial High School Kheda.

Looking back to my school life and keeping in view financial position of my family, I preferred to join newly started V.P. Science College at Vallabh Vidyanagar for further study. On the first day of attending college, I found altogether a new atmosphere; I never experienced (A) Change in medium of instruction from Gujarati to English. (B) Well educated and qualified teaching staff as compared to school teaching staff. (C) Fully equipped laboratory and library. (D) Colorful picture on account of joining large number of students from Sindh state of Pakistan because of bifurcation. (E) Smartness of students as compared to me who having rural culture etc. I was feeling little bit inferiority but adjusted myself slowly and steadily and I cleared First year Science Examination held by College and Inter Science Examinations held by Bombay University both in First Class. And left the college (1949) and joined B.V.M for Further study of Civil Engineering.

I left the college 73 years ago but I still remember names of some of members of teaching staff like (i) Principal Butani Sir (ii) Dr. P.C. Vaidya (Prof. of Mathematics) (iii) Madam Chhabalani (Prof. of Mathematics) (iv) R.D. Patel (Prof. of Chemistry) (V) Pro. Patel (Prof of Physics) to name a few.

Teaching staff of V. P. Science College was kind enough to solve any difficulties and amicable to approach anytime and anywhere. I am very much thankful to all staff members who helped me in building my career.

People of Gujarat are grateful to late Shree Bhailalbhai Patel and Bhikhabhai Patel who with their best efforts established a great and best education center at Vallabh Vidya Nagar and helped lakhs of poor and middleclass students to improve their future.

After getting degree of B.E.Civil in 1953 from B.V.M., I applied for job and selected as Junior Engineer in R & B Department of Govt. Of Gujarat in 1953. Due to my satisfactory performance in Service, I gradually promoted to higher posts, on due dates and finally retired as Chief Engineer in 1988.

Here I would like to share one of my experiences in service. 1968 was **a centenary year** of a Mahatma Gandhiji. On this occasion Govt. of India., Sanctioned a project for Rajkot Porbandar Road(180) Km. and I was promoted and posted as Executive Engineer in charge of the project (NH.8B) of

(A) Widening of road from single lane to double lane

(B) Upgrading road surface with new technique (at that time) of Hot-Mix plant and Paver Finisher (First time in Saurashtra Region)

(C) Major Bridge across Bhadar River near Jetpur.

I completed this project within specified time and to the entire satisfaction of my superior as well as public. I remember to have a letter of appreciation for this work from Porbandar Chamber of Commerce, one of most active bodies.

To remain active in retirement period, I along with my other friends started **(A) Upasna Sarvajanic Seva Trust having spiritual activities (Visveswaraya Mahadev) as well as social services such as free ration to poor, physiotherapy centre, library with 3000 books etc.** Trust has celebrated Silver Jubilee year in 2017.(B) Senior Citizen Centre having a membership 400 and above, this centre has completed 15 years.

Success becomes a significant story only when it has benefited even a small section of society. I am at present 91 years old. I am not a great person but a common man of society. I am fully satisfied with my life I spent and by Grace of God avail the opportunity to serve (A) My I.P.Parivar (B) My Samaj and (C) beyond that small section of society where I reside at present.

I congratulate organization of V.P. Science College for celebrating Platinum Jubilee Year and convey my best wishes for glorious success of function.

I heartily grateful to Dr.Bhavesh Patel, Sir (Principal of V.P.ScienceCollege).

Thanks and Regards,
Nandkishore P. Patel (N.P.Patel)

Virtual Labs : For Basic Electronics & Digital Electronics

The Virtual Labs Project was started as an initiative from the Ministry of Human Resource and Development (MHRD) to create online interactive media which would help students learn difficult concepts in various domains. As a part of this initiative, a virtual laboratory for Basic Electronics has been developed. The objective of this lab is to perform experiments in the Basic Electronic labs virtually, and yet have close to real life experience. The platform is focused on learning aspects as much as on performing the experiments.

Virtual Labs for Teachers :

Virtual Labs have the potential to bring paradigm shift in the way courses are taught today. For example, the teachers can take it to the class and demonstrate live examples while they are teaching difficult concepts to the students. It can also complement the existing labs, wherein the students can be given assignments before or after the lab. The teacher can actively coordinate that effort to enable inclusive learning for all the students.

Virtual Labs for Students :

Students will get a feel of the real lab, equipment, components and lab behaviour are mimicked in the system. Extensive 2D animations is used to provide real like look and feel to the students. The instruments and components are modeled accurately to provide real like response. Interactive animations are also provided.

Key features of Virtual Labs :

1. Available 24x7, so students can learn difficult concepts at their own pace.
2. Real looking components, to give the user a feel of the real laboratory.
3. Step by step wizard to guide the students through the experiments.

Basic Electronics Virtual Laboratory IITKGP.

Target Audience : First Year B.Sc. Students.

List of experiments Developed

1. Familiarisation with Resistor
2. Familiarisation with Capacitor
3. Familiarisation with Inductor
4. Ohm's Law
5. VI Characteristics of a Diode
6. Half Wave Rectification
7. Full Wave Rectification
8. Capacitive Rectification
9. Zener Diode-Voltage Regulator

10. BIJ Common Emitter Characteristics
11. BIJ Common Base Characteristics
12. Studies on BJT CE Amplifier
13. RC Frequency Response
14. RC Differentiator and integrator
15. Black Box.

Digital Electronics IITR, Virtual Labs.

List of experiment

Target Audience : BE / BETECH/BSc : Electronics / And Allied Subject

1. Verification and interpretation of truth table for And, OR, Not, Nand, NOR, Ex-OR, Ex-Nor, gate.
2. Construction of half and full adder using XOR and NAND gates and verification of its operation
3. To study and verify half and Full subtractor
4. Realization of logic functions with the help of Universal Gates (Nand, NOR)
5. Construction of a NOR gate latch and verification of its operation.
6. Verify the truth table of RS, JK, T and D flip-flops using NAND and NOR gates.
7. Design and verify the 4-Bit Serial In-Parallel Out Shift Registers
8. Implementation and verification of decoder or de-multiplexer and encoder using logic gates
9. Implementation of 4x1 multiplexer and 1x4 demultiplexer using logic gates
10. Design and verify the 4-Bit Synchronous or Asynchronous Counter using JK Flip Flop
11. Verify Binary to Gray and Gray to Binary conversion using NAND gates only
12. Verify the truth table of one bit and two bit comparator using logic gates.

Note : Anyone interested in having interest in above mentioned labs can just search

The Title : Basic electronics Virtual Laboratory IITR

OR Digital electronics IITR on Google Chrome

Shri P. A. Lashkari

I.C.Principal

Shri B.H. Lashkari

Asso.Professor

“COLLOIDS”

A colloid is primarily a heterogenous mixture in which the minute particles of one substance are dispersed in another substance, called the dispersion medium.

The minute particles here are 1 to 1000 nanometers in diameter but they still remain suspended and do not settle at the bottom of the mixture. They are visible under an optical or an electron (Smaller particles) microscope.

A colloid is a mixture in which one substance which has fine particles (dispersed phase) mixed into another substance (dispersion medium). The particles of the colloids have a range from 1 to 1000 nm in diameter. The solution is called colloidal dispersion because the particles of solutions do not mix or settle down. They are dispersed in the solution. The substances which are dispersed in the solution are called the dispersed phase, and the solution in which it is dispersed is called dispersion medium.

Types of colloids :

– Colloids can be classified according to different properties of the dispersed phase and medium.

Firstly based on the types of particles of the dispersed phase, colloids can be classified as :

– Multimolecular colloids – Macromolecular colloids – Associated colloids

1. Multimolecular Colloids : When the dissolution of smaller molecules of substance or many atoms takes place, they combine to form a species whose size is in the range of colloidal size. The species formed is known as the multimolecular colloids. For examples, the sulphur solution contains particles which have thousands of S_8 .

2. Macromolecular Colloids : In this types of colloids the macromolecules from a solution with a suitable solvent. The size of the particles of this macro molecular solution lies in the range of colloidal particles size. Thus, this solution is also known as the macromolecular colloids. The colloids formed here are similar to that of the actual solution in many respects and are very stable.

Example : starch, proteins, enzymes and cellulose are the naturally occurring macromolecular colloids.

3. Associated Colloids : Some substances act as a strong electrolyte when they are in low concentrations, but they react as colloidal sols when they are in high concentration. In higher concentration, particles aggregate showing colloidal behaviour. These aggregated particles are known as the micelles. They are also known as the associated colloids. The formation of the micelles occurs above a particular temperature called kraft temperature (TK) and also above specific concentration called the critical micelle concentration. Examples of some associated colloids are soaps and detergents.

Fataniya Roshni S.

S.Y.B.Sc., Chemistry

Roll No. 93

Impact of Social Media on Youth

Today in 21st century, we are a part of developing country, where resources have become a necessity, what are resources for ? They are used for human development. One example of widely used resources is mobile phone. It has become so important in today's world to carry a mobile phone. Not because we can call each other but because we connect each other through social media via mobile phones. Social media is a platform where we share or create content to the public. Social Media apps such as facebook, twitter, whatsapp, messenger, instagram serves the purpose of sharing views on a wide platform.

There are rare cases to find where a person is not active on social media. Every action has equal and opposite reaction. Relating actions as positive outcomes and reactions as negative outcomes.

As every coin has two sides social media also has its own negative as well as positives effects on user's mind. Talking about positive effects, Firstly we connect to our friends when we are not in contact and cannot meet physically.

We can express our views in front of public which serves a position in society. Especially the teenagers feel free to share views. It gives live updates to people of what is happening in locality or around the globe. We are provided with opportunity to connect to our peers virtually that makes an advantage to the youth.

Frequently we can also learn many things such as trending styles, fashion, designing, and also helps the youth in learning concepts easily and effectively. For examples You Tube.

Social media has played an immense role during corona pandemic where students were unable to come physically to school. Social media apps such as zoom, google meet, MS teams provided a platform where the teachers could make the students learn with visual images, PPT, videos etc. It helped students to gather information where the study material is easily available on the sites provided by teachers that made an easy access to resources. This has also helped the unemployed people who are in search of jobs. Social media also creates various opportunities that may help one in need.

It also help in marketing where advertisement of products makes easy for the seller to sell it. Social media has reduced the burden for us we can order easily what we want such as daily products such as vegetables (grocery.com) clothes and accessories (myntra, amazon, meesho) etc.

Some social media app lacks of privacy, if user is not aware of the terms and condition it might create discrepancies or illegal usage of information provided by the user.

Youngsters sometime a victim of distractions which leads to a huge loss in walking towards goals. In such cases parents keep an eye on their children so that they could use social media in a inticrated concised and beneficial, limited manner.

"Excess of anything is Bad".

"Social media if used properly can make one's life".

Vahora Saniya Y.

S.Y.B.Sc. Chemistry, Roll No. 97

Discipline, Decorum And Dignity of Parliament

Success, effectiveness and prestige of any institution rests on its orderly functioning and the exact to which it adheres to standards of discipline, dignity and decorum for discharging its activities.

Discipline, dignity and decorum in this sense are foundational norms of any institution. This is particularly so of the parlimentary institutions which embody the will of the people and constitute the fora of democracy to carry out among other activities, the principal task of scrutiny of the excutive. Erosion of discipline and decorum will lead to the erosion of parlimentary institutions.

Discipline, Decorum and Dignity of parliment are of paramount importance for the efficient functioning and success of parliamentary institutions. All over the world concerns have been expressed about the decline of discipline, decorum and dignity of legislative bodies.

Seen in the context of the evolution of democracy these problems are understood as aberrations. The winter session of parliament (2002) is a remarkable example of the functioning of parliament in consonance with its dignity, decorum and discipline. while this particular session has set high standards before us it is important that we further consolidate and build on these accomplishments.

Farmer Dipali Rajesh

S.Y.B.Sc.

Cyber Security

INTRODUCTIONS:

In this day and age, information technology security is crucial. We spend most of our time online and connected through various different devices. So, how do you know if your business or sensitive personal information is secure? This is where your cybersecurity infrastructure comes in.

It never hurts to hear third-party expert advice, which is why we created this guide to arm you with the information to fight any cyber.

WHAT IS CYBER SECURITY?



Cyber security is the process of implementing different security measures to protect your network, computer systems, cloud infrastructure, and online personal data from cyber threats.

Passwords, social security numbers, or other sensitive data. The term cybersecurity refers to both personal and business devices that are connected to the internet.

Cyber attacks are aimed at stealing personal information, such as credit card data.

There are four types of cyber security:

- Network Security
- Applications Security
- Cloud Security
- Operational Security

Network Security :

This type of security refers to the protection of your computer network from attacks inside and outside of the network. It employs numerous different techniques to prevent malicious software or other data breaches from occurring. Network security uses many different protocols to block attacks but allows authorized user access to the secure network.



One of the most important layers to secure your network is a firewall, which acts as a protective barrier between your network and external, untrusted network connections. A firewall can block and allow traffic to a network based on security settings.

Since phishing attacks are the most common form of cyberattack, email security is the most important factor in creating a secure network. Email security might consist of a program designed to scan incoming and outgoing messages to monitor for potential phishing attacks.

Application Security :

This is the process of protecting sensitive information at the app-level. Most of these security measures should be implemented before the application is deployed. Application security might involve tactics like requiring a strong password from the user.

It might also include features such as two-step authentication, security questions, and other protective measures to ensure a user is who they say they are.

Cloud Security :



Most of our online life is stored in the cloud. To be honest, I haven't saved anything to my personal hard drive in quite some time. Most people use online systems such as Google Drive, Microsoft One Drive, and Apple i Cloud for storage. It is important for these platforms to remain secure at all times due to the massive amounts of data stored on them.

Cloud security can also include business services that are stored in a data centre. To ensure appropriate cloud security measures are in place, you should consider the end-user interface, data storage security, backup plans, and human error that exposes the network.

Operational Security :

This term refers to the risk management process for all internal cyber security. This type of management usually employs a number of risk management officers to ensure there is a backup plan in place if a user's data becomes compromised. Operational security includes ensuring that employees are educated on the best practices for keeping personal and business information secure.

Benefits of Cyber Security :

By implementing security, businesses and individuals can protect themselves against the full range of cyber security threats outlined below, as well as the numerous others that exist.

With cyber security, companies do not have to worry about unauthorized users accessing their network or data. It helps them protect both their end users and their employees.

Even in those rare cases that security does not prevent an attack or breach, it improves the recovery time afterward. In addition companies will often notice that customers and developers are more confident in products that have strong cyber security solutions in place.

Thank You

Pradip Yadav

S.Y.B.C.A.

0!

Maths - an incredible tale of numbers full of thrilling combinations, engrossing ideas, and musing questions. I believe Maths is gripping because it reveals its cards when they are least expected. A few days back, I came to know the story of 0!.

This may not sound very tempting to Maths wizards reading this but believe me I was totally in love with Maths once again with this simple yet not so simple question. So this exclamation looking symbol is a Mathematical operation factorial which means to multiply a series of descending natural numbers.

For example $4! = 4 \times 3 \times 2 \times 1 = 24$

Now we take it as a fact that $0! = 1$ but what's funny is that how can we decrease a number till 1 which is already less than 1. So to decode this cipher let us all do a mental exercise.. So let's calculate what is 5!, 4!, 3!, 2!, 1!.

So $5! = 5 \times 4 \times 3 \times 2 \times 1 = 120$

$4! = 4 \times 3 \times 2 \times 1 = 24$

$3! = 3 \times 2 \times 1 = 6$

$2! = 2 \times 1 = 2$

$1! = 1$

and now if we look closely 4! is nothing but 5!/5 and 3! is 4!/4. Going on $2! = 3!/3$ and $1! = 2!/2$ and leaping one step forward we can get 0! that is $1!/1$ and yes it results in 1. Isn't it baffling that multiplying no numbers together results in 1? But this is how Maths is Beautiful.

Jaydip Solanki

T.Y.B.Sc. (Mathematics)

ARTIFICIAL INTELLIGENCE

In today's day and age of growing technology, we are getting in touch with different technology day by day. In which one of the technologies of computer science is Artificial intelligence (AI), which is the most fascinating and universally accepted field of computer science which has a significant scope in the future. In simple words, Artificial intelligence is when machines think, learn and make decisions similar to humans.

IMPORTANCE OF AI:

- **Elimination of “Human error” :**

Chances of errors are reduced, as humans make mistakes from time to time, however, computers cannot make mistakes if programmed accurately.

- **Analysis more and deeper data :**

With the usage of AI- guided systems for data analysis, we can automatically analyze, clean, and visualize data.

Data analyzed with AI can be relevant, exact and accurate.

- **Adds up intelligence :**

Artificial intelligence adds intelligence to the existing products. It performs high- volume and computerized tasks instead of automating manually eliminating the risk of errors.

- **Artificial Intelligence is changing the world:**

Artificial intelligence is able to exercise a noteworthy amount of data in a short amount of time more data than any human or computer program has ever been able to process.

- **Artificial intelligence in healthcare:**

The future of AI in healthcare is a step towards standardising healthcare for the benefit of patients and healthcare professionals, while at the same time making it less costly and more accurate through AI-powered care. This intelligence will definitely be a game-changer for better medical care to patients. We can expect a totally different future for healthcare as robots interact with patients, check on their health condition, and evaluate the further need for an appointment with a doctor.

- **Artificial intelligence in transportation and manufacturing sectors :**

We observe the evolution of smart and self-governing vehicles. As of now, self-driving cars are already available however, by the next two to three decades the world will witness more people using it. While in the manufacturing sector, elevated use of robots in factories and analytics sector will add to the quality of products and

standardize the logistics and supply chain.

Hence, it has been established that artificial intelligence is the computer knowledge that has human traits, nevertheless, these computers and robots help the environment to grow, and they respond intelligently to help human beings.

Faladu Meet D.

T.Y.B.Sc.(Chemistry)

Ocean Side

I wondered looking at a sight,
Ocean was calm even with it's high tides,
That endless view of water and sky
I was lost in infinite vibes

All alone in windy night
That little sparkling in oceans sight
Was not a person for a while
Wanna be a fairy to fly over the sky

Dreams are still far away from me
But let it be,

I just wanna find myself over me
So let it be.

I'm fighting with my lover
And that is "ME".
The whole world standing against me
But I don't care, I want "ME".

Varsha Makwana

T.Y. Microbiology

Reunion

Some super experience faces
walking from so far
Those little steps and huge laughs
shining like the stars

Memories are made up
As tears are dropped
Darkness of thoughts
Turns into lights

Matches of bounds
As mismatches of pair
Together as a world,
Which you can't find anywhere

Pratiksha Panchal

T.Y.Phy. Dept.

Internet Protocol (IP) Address

What is IP ?

An IP (Internet Protocol) address is a numerical label assigned to each device connected to a computer network that uses the IP protocol for communication. An IP address acts as an identifier for a specific device on a particular network. The IP address is also called an IP number or internet address.

IP address specifies the technical format of the addressing and packets scheme. Most networks combine IP with a TCP (Transmission Control Protocol). It also allows developing a virtual connection between a destination and a source.

Now in this IPv4 and IPv6 difference tutorial, we will learn What is IPv4 and IPv6 ?

What is IPv4 ?

IPv4 is an IP version widely used to identify devices on a network using an addressing system. It was the first version of IP deployed for production in the ARPANET in 1983. It uses a 32-bit address scheme to store 2^{32} addresses which is more than 4 billion addresses. It is considered the primary Internet protocol and carries 95% of Internet traffic.

Features of IPv4 :

- Connectionless Protocol
- Allow creating a simple virtual communication layer over diversified devices
- It requires less memory, and ease of remembering addresses.
- Already supported protocol by millions of devices
- Offers video libraries and conferences

Features of IPv6 :

IPv6 is the most recent version of the Internet Protocol. This new IP address version is being deployed to fulfill the need for more Internet addresses. It was aimed to resolve issues that are associated with IPv4. With 128-bit address space, it allows 340 undecillion unique address space. IPv6 is also called IPng (Internet Protocol next generation)

Internet Engineer Task force initiated it in early 1994. The design and development of that suite are now called IPv6.

Features of IPv6 :

- Hierarchical addressing and routing infrastructure
- Stateful and Stateless configuration.
- Support for quality of service (QoS)
- An ideal protocol for neighboring node interaction.

1. Security : With billions of new smart products being created every day, security is

an important though in the back of all IoT engineers' minds. Organizations and individuals have learned of the real and imminent threat that hackers pose in past years, but the IoT brings up a whole new line of security intricacies. Hacking a secure network and harvesting millions of credit card numbers is terrible-but if someone with ill intentions was to hack into a smart city, or a neighborhood of smart houses, the outcome could be far more catastrophic. You can tell why IoT security is very important-and the good news is that IPv6 offers better security solutions than its predecessor, largely due to IPsec.

For one thing, IPv6 can run end-to-end encryption. While this technology was retrofitted into IPv4, it remains an extra option that is not universally used. The encryption and integrity-checking used in current virtual private networks (VPNs) are a standard component in IPv6, available for all connections and supported by all compatible devices and systems. Widespread adoption of IPv6 will therefore make "man-in-the-middle" attacks—i.e., thinking that you're signing into a secure bank log in when you're actually walking into a cyber "trap" – significantly more difficult.

IPv6 also supports more-secure name resolution. The Secure Neighbour Discover (Send) protocol is capable of enabling cryptographic confirmation that a host is who it claims to be at the time of the connection. This renders address Resolution Protocol (ARP) poisoning and other naming-based attacks more difficult. And while IPv6 isn't a replacement for application or service-layer verification, it still offers an improved level of trust in connections. With IPv4, it's fairly easy for an attacker to redirect traffic between two legitimate hosts and manipulate the conversation or at least observe it—but IPv6 makes this very difficult.

2. Scalability :

According to a report put out by Gartner, 25 billion "things" will be connected to the internet by the year 2020. That's pretty incredible estimation, considering the same report notes that 4.9 billion devices will be connected in 2015. This purported 400% increase in growth in only five years sheds some light on how much exponential IoT growth we can expect to see in the next 10, 20, or even 50 years.

Given these numbers, it's easy to understand why IPv6 (and its trillions of new addresses) are important for IoT devices. Creators of IoT products that are connected over TCP/IP can rest assured that there will be a unique identifier available for their devices for a long, long time.

Parth Vyas

T.Y.BCA (32)

What is Bitcoin.... ?

Bitcoin (B) is a decentralized digital currency, without a central bank or single administrator, that can be sent from user to user on the peer-to-peer bitcoin network without the need for intermediaries. Transactions are verified by network nodes through cryptography and recorded in a public distributed ledger called a block chain. The crypto currency was invented in 2008 by an unknown person or group of people using the name Satoshi Nakamoto. The currency started use in 2009 when its implementation was released as open-source software.

Bitcoins are created as a reward for a process known as mining. They can be exchanged for other currencies, products, and services. Bitcoin has been criticized for its use in illegal transactions, the large amount of electricity (and thus carbon footprint) used by mining, price volatility, and thefts from exchanges. Some investors and economists have characterized it as a speculative bubble at various times. Others have used it as an investment, although several regulatory agencies have issued investor alerts about bitcoin. In September 2021, El Salvador officially adopted Bitcoin as legal tender, becoming the first nation to do so.

The word bitcoin was defined in a white paper published on 31 October 2008. It is a compound of the words bit and coin. No uniform convention for bitcoin capitalization exists; some sources use Bitcoin, capitalized, to refer to the technology and network and bitcoin, lowercase, for the unit of account. The Wall Street Journal, The Chronicle of Higher Education, and the Oxford English Dictionary advocate the use of lowercase bitcoin in all cases.

Units and divisibility :

The unit of account of the bitcoin system is the bitcoin. Currency codes for representing bitcoin are BTC, and XBT. Its Unicode character is ₿. One bitcoin is divisible to eight decimal places. Units for smaller amounts of bitcoin are the mill bitcoin (mBTC) equal to 1/1000 bitcoin, and the satoshi (sat), which is the smallest possible division, and named in homage to bitcoin's creator, representing 1/100000000 (one hundred millionth) bitcoin, 100,000 satoshis are one mBTC.



Block chain :

The bitcoin block chain is a public ledger that records bitcoin transactions. It is implemented as a chain of blocks, each block containing a hash of the previous block up to the genesis block in the chain.

A network of communicating nodes running bitcoin software maintains



the block chain. Transaction of the form *payer X sends Y bitcoins to payer Z* are broadcast to this network using readily available software applications.

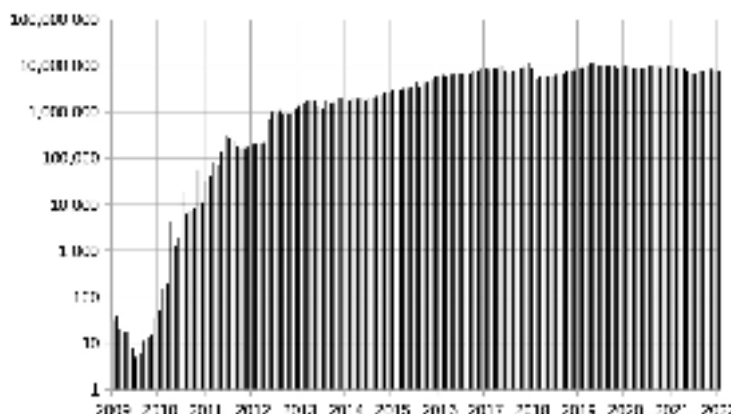
Transactions :

Transaction are defined using a Forth-like scripting language. Transactions consists of one or more *Inputs* and one or more *outputs*. When a user sends bitcoins, the user designates each address and the amount of bitcoin being sent to that address in an out put. To prevent double spending,

each input must refer to a previous unspent output in the block chain.

The use of mutple inputs corresponds to the use of multiple coins in a cash transaction. Since transactions can have mutple outputs, users can send bitcoins to multiple recipients in one transaction. As in a cash transation, the sum of inputs (coins used to pay) can exceed the intended sum of payments. In such a case, an additional output is used, returning the change back to the payer. Any input is not accounted for in the transaction outputs become the transaction fee.

The blocks in the blockchain were originally limited to 32 megabytes in size. The block size limit of one megabyte was introduced by Satoshi Nakamoto in 2010. Eventually the block size limit of one megabyte created problems for transaction processing, such as increasing transaction fees and delayed processing of transactions. Andreas Antonopoulos has stated Lightning Network is a potential scaling solution and referred to lightning as a second layer routing network.



Purva Umesh Chandra Bhatt

T.Y.Botany

Robotics

What is robotics ?

- Robotics is an interdisciplinary branch of computer science and engineering.
- Robotics involves design, construction, operation and its use of robots.
- The goal of robotics is to design machines that can help and assist humans.
- Robotics utilize a broad range of disciplines within computer science and beyond, from mathematics to mechanics to biology.
- Especially important tools from computer science include artificial intelligence and sophisticated sensor processing.
- Joseph F. Engelberger is known as the father of robotics.

Types of Robots

- Robots come in all shapes and sizes to efficiently carry out the task for which they are designed.
- All robots vary in design, functionality and degree of autonomy.
- From the 0.2 millimeter-long "RoboBee" to the 200 meter-long robotics shipping Vessel "vindskip" Robots are emerging to carry out tasks that humans simply can't.
- Generally there are 5 types of robots:
 1. Pre-programmed robots.
 2. Humunoid Robots
 3. Autonomous Robots
 4. Teleoperated Robots
 5. Augmenting Robots

1. Pre-Programmed Robots :

- Pre programmed Robots operate in a controled environment where they do simple, monotonous tasks.
- An example of a pre-programmed Robot would be a mechanical arm on an automotive assembly line.
- The arm serves one function-to wel a door on, to insert a certain part into the engine etc.
- and its job is to perform that task longer, faster and more efficiently than a human.

2. Humanoid Robots :

- Humanoid robots are 'robots that look like and / or mimic human behaviour.
- These robots usually perform human-like activities (like running, jumping and carrying objects), and are sometimes designed to look like us, even having human faces and expressions.

- Two of the most prominent examples of humanoid robots are Hanson Robotics' sophia and Boston Dynamics Atlas.

3. Autonomous Robots :

- Autonomous Robots operate independently of human operators.
- These robots are usually designed to carry out tasks in open environments that do not require human supervision.
- They are quite unique because they use sensors to perceive the world around them, and then employ decision-making structures (usually a computer) to take the optimal next step based on their data and mission.
- An example of an autonomous robot would be the Roomba vacuum cleaner, which uses sensors to roam freely throughout a home.

examples of Autonomous Robots :

- Cleaning Bots (e.g. Roomba)
- Hospitality Bots
- Medical Assistant Bots
- Lawn Trimming Bots
- Autonomous Drones

4. Teleoperated Robots :

- Teleoperated Robots are semi-autonomous bots that use a wireless network to enable human control from a safe distance.
- These robots usually work in extreme geographical conditions, weather, circumstances, etc.
- Example of teleoperated robots are the human controlled submarines used to fix underwater pipe leaks during the BP oil Spill or drones used to detect landmines on a battlefield.

5. Augmenting Robots :

- Augmenting robots either enhance current human capabilities or replace the capabilities a human may have lost.
- The field of robots for human augmentation is a field where science fiction could become reality very soon, with bots that have the ability to redefine the definition of humanity by making humans faster and stronger.
- Some examples of current augmenting robots are robotic prosthetic limbs or exoskeletons used to lift hefty weights

Uses of Robots :

- Robots have a wide variety of use cases that make them the ideal technology for the future.
- soon, we will see robots almost everywhere.
- We'll see them in our hospitals, in our hotels and even on our roads.

Applications of Robotics :

- Help to fight forest fires
- Working alongside humans in manufacturing plants (known as co-bots)
- Robots that offer companionship to elderly individuals
- Surgical Assistants
- Last-mile package and food order delivery.
- Autonomous household robots that carry out tasks like vacuuming and mowing the grass.
- Assisting with finding items and carrying them throughout warehouses.
- Used during search and rescue missions after natural disasters.
- Landmine detectors in war zones.

Vinita R. Dhanani

S.Y.Micro, Roll No. 586

Advantages of Practical work in Chemistry

Science practicals are one of the fundamental tools enabling our students to learn scientific knowledge. However, we know that carrying out practical work in class has its own challenges. These 'hands-on' activities support the development of practical skills and help to shape students, understand scientific concepts and phenomena. A further consequence of an understanding of hazard.

Chemistry is a practical science. Practical activities are not just motivational or fun. They also enable students to apply & extend their knowledge and understanding of chemistry in novel investigative situations, which can add learning & stimulate interest, it helps to invent new products and also to overcome the flaws of existing products.

Let's understand it in more detail with examples. If we have to study chromatography using a reference book we cannot understand properly but if we can go with the practical work it will simply allow you to understand the whole concept easily.

Same thing applies to study different instruments like potentiometer, Conductometer and basic principle.

"Chemistry is important in science as oxygen in life".

Jaynam Shah

Chemistry Department

CYBER ATTACKS

Introduction :

An attack, via cyberspace, targeting an enterprise's use of cyberspace for the purpose of disrupting, disabling, destroying, or maliciously controlling a computing environment/infrastructure; or destroying the integrity of the data or stealing controlled information.

Cyber attacks most commonly involve the following Malware, in which malicious software is used to attack information systems. Ransomware, spyware and Trojans are examples of malware.

1. Malware:

The term "malware" encompasses various types of attacks including spyware, viruses, and worms. Malware uses a vulnerability to breach a network when a user clicks a "planted" dangerous link or email attachment, which is used to install malicious software inside the system.

Malware and malicious files inside a computer system can:

- * Deny access to the critical components of the network
- * Obtain information by retrieving data from the hard drive
- * Disrupt the system or even rendering it inoperable.

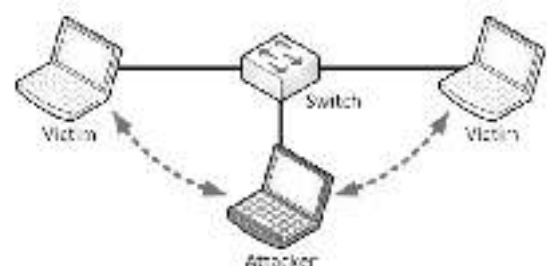
2. Phishing :

Phishing attacks are extremely common and involve sending mass amounts of fraudulent emails to unsuspecting users, disguised as coming from a reliable source. The fraudulent emails often have the appearance of being legitimate, but link the recipient to a malicious file or script designed to grant attackers access to your device to control it or gather recon, install malicious scripts/files, or to extract data such as user information, financial info, and more.

3. Man-in-the-Middle (MitM) Attacks:

Occurs when an attacker intercepts a two party transaction, inserting themselves in the middle. From there, cyber attackers can steal and manipulate data by interrupting traffic.

This type of attack usually exploits security vulnerabilities in a network, such as an unsecured public WiFi, to insert themselves between a visitor's device and the network.



4. Denial-of-Service (DOS) Attack:

DOS attacks work by flooding systems, servers, and/or networks with traffic to overload resources and bandwidth. This result is rendering the system unable to

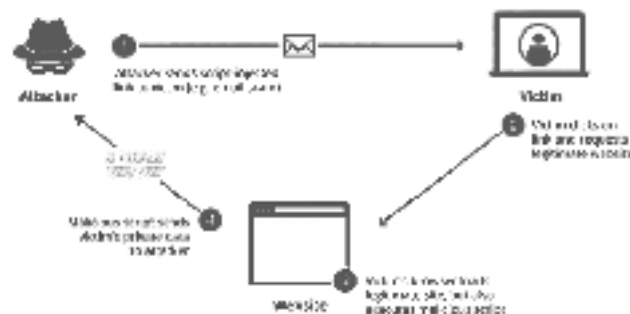
process and fulfill legitimate requests. In addition to denial-of-service (DoS) attacks, there are also distributed denial-of-service (DDoS) attacks.

5. Password Attack :

Passwords are the most widespread method of authenticating access to a secure information system, making them an attractive target for cyber attackers. By accessing a person's password, an attacker can gain entry to confidential or critical data and systems, including the ability to manipulate and control said data/systems.

6. Cross-site Scripting:

A cross-site scripting attack sends malicious scripts into content from reliable websites. The malicious code joins the dynamic content that is sent to the victim's browser. Usually, this malicious code consists of JavaScript code executed by the victim's browser, but can include Flash, HTML and XSS.



7. Internet of Things (IoT) Attacks:

While internet connectivity across almost every imaginable device creates convenience and ease for individuals, it also presents a growing—almost unlimited—number of access points for attackers to exploit and wreak havoc. The interconnectedness of things makes it possible for attackers to breach an entry point and use it as a gate to exploit other devices in the network.

IoT attacks are becoming more popular due to the rapid growth of IoT devices and (in general) low priority given to embedded security in these devices and their operating systems. In one IoT attack case, a Vegas casino was attacked and the hacker gained entry via an internet-connected thermometer inside one of the casino's fishtanks.

Importance of Cyber Attacks:

At an individual level, cyber security attacks can lead to identify theft and extortion attempts, which can do serious damage to that individual's life. We all rely on the safety of our data and personal information.

Prajapati Maharshi UpendraKumar

SYBCA

Mental Health

Mental health is considered as an underrated topic among maximum amount while issues related mental health of students are increasing day by day. In the bright 21st century nobody talks about it. Do you know what mental health is ? what are the major signs of a poor mental health ? How it can affect your future related decisions ? There are many questions and topics to know

Now talking about mental health, it is nothing but our emotional, psychological and social well being in which a person should know his/her own abilities to handle stress or any negative situations in his/her life.

A bad mental health can greatly impact your emotions, thinking process and social confidence in your society. It is very important to take some better steps to improve our bad mental health. A bad mental health includes thought of 'self harm' 'feeling lack of energy' and motivation 'low mood,' eating or sleeping disorders and etc.

In this fast & modern era being stressed in your young and adult days is found very common, due to increased use of social media is not true life, everything in social media is full show of positiveness, happiness and some fake scenarios through which we compare our own life and from that factor we fell stressed about our lives, We really forgot that everyone's life, every human, every being has a different life journey every human faces his own happiness and sadness, pressure related our 'Life career', 'Loving job', 'being alone', some factors that cause a bad mental health sometimes a sad mental disorder passes from genes of family (look here everyone's life and behaviour is different, everyone is different from other. I'm not telling that you will have a bad mental health, there will be just symptoms and signs related to bad mental health of you feel any kind of symptoms or signs, talk to your family and friends whom you trust.

My point is the signs of a good mental health are that you feel very confident with facing new people and challenges, confident about yourself' and your abilities. you feel motivated and you always keep a positive mindset. If you feel low just remember you are not bad or useless in your life, take your life challenges positively. To beat a bad mental health keep in contact with your friends family', 'eat and sleep well' 'reduce the use of TV stay active, do something. You love in outdoor, travel more', learn a new skill stop comparing world is full of ups & downs first take it in a right positive manner

Your life is "yours" don't let some negative event or people affect it. you are awesome as you are. Life is beautiful, enjoy it !!!.

Prajapati Santosh G.

S.Y.B.Sc., (Computer Science)

Roll No. 324

Drugs

All herbs used until the 19th century were used as a crude. Such as crushing of tree bark, roots, leaves or decoction made in water etc. The bark of the cinchona (sinkona) tree found in nature used for treatment of malaria and then the quinine from it, was used. But there were some diseases for which no natural or synthetic herbs found in 19th century. As a fruit of research into the usefulness of chemicals, chemicals were treat disease in the early 20th century.

In 1904, the German chemist paul Ehrlich realized that some chemicals are more toxic to pathogens. compared to human cells. Therefore these chemicals can be used for the treatment and control of infectious diseases. Ehrlich discovered some of the pigments that are used to sterilize bacteria which allows these bacteria to be clearly seen under a microscope. These pigments stain the nerve cells of the bacteria.

From this he got the idea that in such objects by making appropriate modifications they can be made toxic to germs. They can be used as effectives herbs for dieases caused by this bacterium. For skin diseases like syphilis he synthezied arsenic containng compounds. For this work Paul Ehrlich was awarded the Nobel prize in 1908. He is known as the "Father of Chemotherapy because of his successful efforts in Chemotrtherapy".

Drugs are chemicals of low molecular masses. which interact with macro molecular targets and produces a biological response is therapeutic and useful, these chemicals are called medicines and are useful in diagnosis, prevention and treatment of diseases. Use of chemicals for therapeutic effect is called "Chemotherapy".

Drugs can be classified mainly on criteria outlined as follow.

- A. on the basis of pharmacological effects
- B. on the basis of Drug action.
- C. on the basis of chemical structure
- D. on the basis of molecular targets

Tranquillzers and analgesics are neurologically active drugs, these affect the message transfer mechanism from never to receptor.

Traquilizers :

They are a class of chemical compounds used for the treatment of stress. and mild or even severe mental disease. this relives anxiety, stress, irritability per excitement by inducing a sense of well-being they form an essential component of sleeping pills.

Analgesics :

It reduce or abolish pain without causing impairment of consciousness, mental confusion, incoordination or paralysis of some other disturbances of nervous system. There are classified as...

Non-Narcotics :

Aspirin and paracetamol belong to the class of narcotic analgesics. Aspirin is the most familiar examples Aspirin inhibits the synthesis of chemicals known as prostoglandins which stimulates inflammation in the tissue and cause pain. These drugs are effective in relieving skeletal pain such as reducing fever. It finds use in prevention of heart attacks.

Narcotic Analgesics :

Morphine and many of its homologues, when administered in medicinal doses, relieve pain and produce sleep in poisonous doses, these produces stupor, coma, convulsions and ultimately death, these are chiefly used for the cardiac pain and pains of terminal cancer and in child birth.

Raj M. Patel

Chemistry Dept., Roll No. 67

Nights Are Young

Those stars in the dark sky
Made me to feel like someone's holding me
To stay there for lifetime
Soft moon light,
Made me fall in love
With the dark nights
Silence of winds,
Taught to be clam
In every circumstance of life
A little shine of each star
Cheering me to shine
Like a shooting star on my way
Nights are quieter
And warn like a hug by mom
Too fragile to hold on as it is.
Nights are young

Varsha Makwana

T.Y. Microbiology

OMICRON

The Omicron variant is a variant of SARs-Cov-2, the virus that causes Covid-19. It has first reported to the world Health organisation from south Africa on 24th November 2021. On 26th November 2021. WHO (World health organisation) designated it was a variant of concerned and named it "Omicron". The variant has an unusually large no. of mutation and they affect the spike protein targeted by must covid-19 vaccines. The new variant was detected on 22 November 2021 in Laboratories of Bostwana and South Africa. Effect of this variant does not have any symptom & illness compared to previous wave. Pfizer and Biotech released an initial lab studied Booster dose of its vaccine is effective in fighting the Omicron, but the effectiveness of initial two doses vaccination series fall significantly. The rate has surged in South Africa with 62,021 new cases between Nov 29 and Dec.5 of 2021 omicron is more transmissible than the globally dominant Delta variant but causes less severe illness and could undermine under covid vaccines.

On 16th December it had been confirmed in more than 80 countries and in all continents except Antartica. Initially two cases of omicron variant have been detected in India. One foreigner who was travelling to south Africa with no travel history. According to central and state officials it has been detected in 11 states and union territories.

Govt. had taken action on this :

- Non essential travel must be averted
- Mass gathering should also be avoided.
- Festivities particularly the upcoming christmas and new year fall should be observed in low intensity.
- And, further there is no information about particular vaccination. But according to government of India two dose of vaccine to the maximum number of people as soon as possible.

Meera A. Kadakia

S.Y.B.Sc. (Chemistry)

Importance of Mathematics

Introduction :

Mathematics is a study of measurements, numbers, and space, which is one of the first science that humans work to develop because of its great importance and benefit. The origin of the word "Mathematics" is in Greek, which means tendencies to learn and there are many' branches of maths in science, that are related to numbers, including geometric forms, algebra, Analysis and others.

Mathematics helps in Analytical thinking. While solving maths problems, data are collected disassembled and then interconnected to solve them.

- Mathematics helps to develop the ability to think
- It helps to develop wisdom.
- It is important in a constantly evolving world.
- It provides the child with an opportunity to get to the world.

Mathematics in our Everyday Life :

Mathematics is the pillar of organized life for the present day. Without numbers and mathematical evidence, we cannot resolve any issues in our daily lives. There are time, measurements, rates, wages, tenders, discounts, claims, supplies, jobs, stocks, etc. and in the absence of these sports data, we have to face confusion and chaos..

Thus Mathematics has become the companion of man since the beginning of human existence on earth. When man first wanted to answer questions such as "How many ?" He invented math. Then algebra was invented to facilitate calculations, measurements, analysis, and engineering.

Mathematics is necessary to understand the other branches of knowledge. All depends on mathematics in one way or another. There is no science, art or specialty except mathematics was the key to it. The discipline and mastery of any other science or art are very much related to the size of Mathematics.

The Most Important Uses of Mathematics :

I think it is impossible to limit the uses of mathematics life so are will suffice with some of them: can you use any entertainment game without using numbers ? Can you practice any sport without using numbers to learn if you are a winner or a loser ? Can you do your work without using numbers ? If you are a teacher collect your students marks or a doctor, estimate the amount of medicine for the patient or an engineer, estimate the amount of raw material to be added to complete the work or even a leader in a bottle.

The Importance of Mathematics to Society :

Mathematics is an innate approach to research and analysis to reach a solution to mathematics problems. Mathematics is a basis subject taught at all stages. It cannot be dispensed with. Some of the important roles of mathematics in society are :

The importance of mathematics in scientific studies: The conduct of studies and scientific research requires many skills in sports, which help in the development of studies and progress, for example, the study of physics or chemistry depends heavily on mathematics, including mathematical skills and lies the role of mathematics in the accuracy of conducting social research through the statistics branch.

The importance of mathematics in the development of social values : It helps mathematics in the development and refinement of personality, through organization and accuracy, research and investigation and study.

The importance of mathematics in cultural development : Like other sciences, mathematics influences civilization development. Cultural development depends on the achievement of scientist and innovator, especially athletes. No one neglects the role of Arab and muslim scientists in the development of civilizations.

A great mathematician Muhommad in musa al-khewarizmi who created the theory of algebra and low of aritimetic that helped develop modern science and technology.

Mathematics is not about numbers, equations, computations or algorithm: It is about understanding.

Jay Rajeshbhai Darji

T.Y.Mathematics

Viruses : Enemy or Valuable

The word virus, connotes morbidity and mortality but its bad reputation is not universally derived. For the public, they are aggressive and bad gage but to microbiologist and biotechnologist, there a lot to admire about them. There tiny molecular machines have unparalled abilities, honed over billions of years of evolution. Taking advantage of the ability of viruses to manipulate life is opening new doors for biotech industry. Once only seen as our enemies, viruses are fast becoming some of our valuable allies.

It was a dumb found to know that ancient retroviruses from the beginning of time is incorporating and has made a permanent home in the genome. Human genome is composed of 8% of virus particles. Human endogenous retrioviruses (Hervs) are present in surface proteins, transmembrane protein, capid, protease, etc., in each human body cells. These retroviruses have helped cellular mechanisms in our body. For instance, the mammalian genes for syncitin protein, essential in establishment of the pracentia are retroviral env genes that are incorporated on different occassions. This syncitin proetin workes as first line defense for the foetus from other pathogenic microbes. Ensuing this research, many applications for viruses have infoled such as in medicine pharmacy. Agriculture, gene therapy and Biotechnology. Nanotechnology vaccines (especially for cancer) etc. In agricultural domain. It is a well known fact that plants cannot tolerate flight temperature of soils surrounding the hot springs and geysers such as "Yellow stone National Park," US. Marliyn J. Roosinick, a microbiologist created symbioses between virus-infected fungi and other plants. which tested to survive these elevated tempratures, included crops of tomatoes, cucumbers, etc. Investigators have also found that certain viruses can render some plants drought tolerant.

Domesticating virsues has been an ongoing scientific endeavor for decades. Their talents a cellular hijackers make them extremely valuable tools for biotech applications from delivering gene therapies to killing superbags. World Economics forums lastyear labeled the treat of antimicrobial resistance and its infections are on track to kill 10 million people a year by 2050. As number of effective antibiotics in once arsenal continues to shrink. How is an increasing interest in tackling superbugs using bicteriophage viruses, which are natural predators of bacteria. Bacteriophage latch on their target and hijack its internal machinery to produce more viruses, which then burst out from bacterium, destroying it. Conveniently, there viruses are unable to infect human cells, so they are completely harmless to us. Also, they do not kill beneficial bacterias, which is a common problem with antibiotics. The Phagomed company in Vienna is pioneering development of such phage therapy treatments. Viruses are also used as vectors which are modified virus

whose pathogenic components are removed retaining its gene delivery skills. This makes then versatile tool for introducing genetic material in human cells, called gene, therapy sirion Biotech, a German company develops viral vectors. A recent product is structure designed to treat patients suffering from vision loss restoring the vision.

Cancer, one of the leading causes of death all around the world which has found no cure yet, can be knocked down by viruses. Viruses are naturally adept to infect specific cells. This make them ideal for targetting tumors with a high level of accuracy leaving healthy cells undisturbed. Amgen's Imlygic is the only approved cancer therapy right now based on oncolytic virus. It consist of herpes virus that is genetically engineered to treat melanoma Many pre-clinical & clinical trials are going on & there have been a wave of investment in this area if research by big pharma over the last few years.

All in all, the sinister reputation of viruses may never be fully erased, but it's dear that they can offer us many impressive possibilities. For from only being bringers of death and disease, viruses are establishing themselves as crucial enablers of powerful new treatment that would have been impossible without their help. Hence, we just need to turn them from foes to friends.

Rini Reji

During My Birth

That was the month of April,
When I entered on the Earth,
Everything seemed black to me,
But to her everything seemed bright.

Mumma ! I will love you always,
That is why Daddy says,
"Beta you are the only one
Who can find successful ways"

They day you took me Dad,
There was no need of bed,
I felt so comfortable in your hand,
Like hungry animals in the grassy land.

Raulji Diya Yashpalsinh

F.Y.B.Sc.

My India My Pride

I am proud to be an Indian. India is a country where people live with peace. As we all know that India is 7th largest country. If we talk about population then it is a 2nd largest population in the world after china. There are so many rivers, Mountains, forests, etc. There are many lauguages, religions & festival.

As we all know that British had rule on India. But we were Independent on 15th August, 1947. There are several person who fights against British to get an Independent India. First prime Minister of India was Jawaharlal Nehru. There was contribution of Gandhiji, Sardar Vallabhbhai Patel, etc. for achieving independent India. Talking about Dr. Babasaheb Ambedkar he is known as father of Indian constitution.

India is surrounded by oceans from three side. Bay of Bengal is east, Arabian sea in west & Indian ocean in South. Tropic of cancer runs through centre of India, which divides into two parts North India & South India. India stretches from Kashmir in north to kanyakumari in South. And stretches from Kandla in west to Kohima in east. The North-South distance is about 3214 km, while east west distance is about 2933 km. India is a perninsular country situated in central part of South Asia. Lakshadweep Islands are located in the Arabian sea & the Andaman-Nicobar Islands are located in the Bay of Bengal.

Largest state by area of India is Rajasthan. Smallest state by area of India is Goa. Largest mountain peak of India is godwin Austin (8611 metres) Brahmaputra rivert is deepest river in India with depths reaching up to 380 feet. The Ganga River is the longest river in India. The largest dam in India is Tehri Dam. Umngot river is a cleanest river in India. The longest dam in India is Hirakund Dam.

Several seasons & various soils leads to have a variety of agricultural crops in India. Second rank amongst agro industries in India is sugar Industry India's leader producer of sugar is Uttarpradesh.

A distinct characteristics of Indian culture is to maintain impartiality among all religions, races & people. So India has accepted people observing any religions or any race or people. So India has accepted people observing any religion or any race or people by extending friendship to all. Indian culture holds feeling of impartiality. Hence, a combination of cultural elements of different peple is seen in Indian culture. So, therefore India has become a centre of 'confluence of cultures'.

Flag of India consist of three colours & one Ashoka chakra at centre of flag. In Indian flag saffron colour is a sign of purity, white colour is sign of peace & Green colour is a sign of fertility. Ashoka chakra is of Blue colour & have 24 spokes. National anthem of India is Jana Gana Man and National song of India is vande Matram. National language of India is Hindi.

India has current tallest statue in world. It is known by statue of unity. The statue of unity is built in dedication to Iron Man Sardar Vallabhbhai Patel, who was the first home minister of independent India. Further more, Height of statue of unity is 182 meters. The statue has a viewing gallery at 153 metres from where around 200 people can have a panoramic view of Sardar Sarovar Dam.

Mudra Rajeshbhai Bhimani

F.Y.B.Sc. Roll No.43

Questions to be Answered

—Here I was happy in a moment and hoping I came out of that pond of misery,
Just to know I was about to step in an ocean of suffering.
How am I supposed to absorb this evil matter ?
Brought by these giant waves every night and day.
I am rowing on the same boat that I did a few months ago with the same waves to
come and go,
But can't seem to find a valid reason for this same,
Or is it already in my head and I just don't want to say.
They say you need an ointment to fix you up.
I would've applied it if the wound was on my body,
But tell me, what should I put to make these scars go away from my injured soul ?
I can feel a darkness growing in this biotic jail of mine with dying soul within,
As the sun approaches above the Earth, I see my existence to shrink like my shadow
under the sun.
Tell me which candle will extinguish my burning darkness ?
How to build a dam to stop these cunning waves leaving me to drown every now
and then ?
How do I protect my head from these arrows soaked in sorrow raining on this
punctured umbrella ?
Think of a fish on the shore, struggling to dive back in the water,
That exact thirst of love every cell of my body is fighting to quench.
I can't even put myself out of this pain, it's a sin they say,
Only could they know that is the only way left for me to feel divine again.

Nirav Parmar
T.Y.Zoology

My Experience of NCC

Jay Hind,

I am cadet chandu. I am junval from 13 Guj Battalion V.V.Nagar & I am from second year Chemistry. Today I am going to share my experience of NCC....

NCC means National Cadet Corps. A youth wing started in 1948 with a motto unity and discipline.

I find myself privileged to get the opportunity to write about my experience in NCC. Before I share my experience, I would like to tell you about my junior division experience, where I have joined NCC since 2016. I was an average student and not being very extrovert. When suddenly the opportunity of NCC came. I grabbed that opportunity & became a bright student. First I went for long practice of NCC training, which include physical test, drill, which taught me a great skill like how to remain concentrated and focused in the difficult situation.

Slowly I get to know all of the best in the NCC training. The training was given for the NCC RDC camp and it includes, 7 camps (corner) in junior division I have done 2 camp Thamna, 1 mogri (inter battalion competition), 2 Ahmedabad (inter group competition), 1 Rajpipla (NIC), 1 mogri (CATC). Then now I am called the pre RDC-2 returned & I got golden sergeant rank, where my dream was been broken of RDC. Because of the drill, pointless error was being consider.

In the end I was too happy because sometime which I have learnt was that how to remain determined in the worst situation. I have always remembered my parents words that what you do, do your best in all situations and I did it. In college F.Y.B.Sc. I have again grabbed my opportunity of joining the NCC which included senior division (SD) and it was the best I would do it.

Activities of National Cadet Corps :

1. Institution Training....
2. Camp Training....
3. Annual Republic Day Camp...
4. Prime Minister's Rally
5. Attachment Training
6. Social Service and Community Development
7. Youth Exchange Programme (YEP) ...
8. Adventure Based Learning
9. Thal Sainik Camp.
10. Advance leadership camp

Cadet Chandu Junval
(S.Y.B.Sc. Chemistry)

Concept by : **Helly Patel**
(S.Y.B.Sc Microbiology)

Women who changed the face of India with their Achievement

"The woman who follows the crowd will usually go no further than the crowd. The woman who walks alone is likely to find herself in places no one has ever been before". – Albert Einstein

There are numerous women deserving of honour in their field of excellence. Some of them are named here:

1. **Dhing Express - Hima Das**

- Hima Das is the first Indian athlete to win gold at the IAAF world under-20 Athletics championship in 2018, held at Tampere, Finland.
- Later, she went on to win gold and silver medals at the Asian Games held in Jakarta.
- She currently holds the Indian national record in 400 meters, with a timing of 50.79 seconds.
- The daughter of a humble rice farmer near the town of Dhing in Assam, Hima Das became a national phenomenon at the young age of 18.
- And in 2019, she won 5 gold medals in 20 days!
July 2, Poznun : 200 m gold (23.65 seconds)
July 7, Kunto : 200 m gold (23.97 seconds)
July 13, Klando : 200 m gold (23.43 seconds)
July 17, Tabor : 200 m gold (23.25 seconds)
July 20, Prague : 400 m gold (52.09 seconds)
Just ! Wow !

2. **Ms. Knock - out - Mary Kom**

- Chungneijung Mary Kom Hmangte is an Indian olympic boxer from Manipur.
- She is the only woman to achieve the coveted no.1 position in the International Boxing Association (AIBA) after becoming the world Amateur Boxing champion for a six times record.
- Kom is also the only woman boxer to have won a medal in at seven world championships, making it a world record.
- Known as 'Magnificent Mary', she has become India's favourite sportsperson, shining at several International platforms.

3. **Sky warrior – Avani Chaturvedi**

- Flight Lieutenant Avani Chaturvedi, a young Indian Air force officer, became the first Indian woman fighter pilot to fly the 'Mig-21 Bison' Solo.

- The Mig-21 Bison' is known for its highest take off and landing speed in the world at 340 Kmph.
- Avani Inspired many young women by making her mark in a field dominated by men.

4. Vijaya Lakshmi Pandit :

- A diplomat and Politician, Pandit's career was Full of many impressive accomplishments.
- She was the first woman in the world to be an ambassador to three different countries, serving in Moscow, London and Washington D.C. Most notably, however she was the first Asian to be elected the president of the United Nations General Assembly.

5. Justice Anna Chandy :

- Justice Anna Chandy became the first female Indian judge when she was appointed to a district court 1937.
- When she was appointed to a high court in 1959, she became only the second woman in the world to hold the distinctive title of high court judge.
- Along with her judicial accomplishment justice chandy advocated for women's rights in the journal she founded and edited, Shrimati'.

6. Seema Rao

- This lady was achieved what no other Indian woman has, so far.
- Seema Rao is the country's first woman commando trainer.
- Also qualified as a professional medical doctor.
- She possesses an MBA in crisis Management.
- In partnership with her husband, Major Deepak Rao, she has trained over 15,000 soldiers in close quarter battle.
- To top it all, she is one of only 10 women in the world who are trained in Jeet Kune Do a form of martial arts developed by Brucelee.
- She is known as India's wonder woman.

Vinita R. Dhanani

S.Y.B.Sc.(Micro)

Inspirational Article for the Fight Against Sexual Assault And Victim Shaming

Sexual assault is never okay-Although some survivors may stay silent for years before sharing their stories, the act is in no way shape or form acceptable.

In the past, however, the subject seemed to be overlooked. Many women were subjected to being sexually harassed and assaulted by men who felt as though they were in the right and looking to gain positions of power. sadly, years went by with a society that would rather brush things under the rug then face these wrong doings head-on without support, even powerful women fell to the silence that follows a sexual assault.

The world today is changing, but unfortunately, sexual assault is still happening every single day. people are beginning to talk about it more but it is still not reaching a point where there is a solution. As long as sexual harassment and assault continues to happen, and as long as people out there still think it is even slightly okay, then everyone is still in danger of this happening to them.

We need to listen to survivors when they gather the unspeakable amount of courage it takes to speak up and say "me too". We need to fight for the people who can't fight for themselves. Something has to be done to make a change overlooking sexual assault is not okay-trying to make it disappear and knowing about it while not doing anything about it is not going to change anything. We are humans and all deserve to be treated with respect.

So look to these powerful quotes to encourage you to continue the fight against victim-shaming sexual assault and harassment.

1. "Don't be ashamed of your story - it will inspire others".
2. "But no matter how much evil I see, I think it's important for everyone to understand that there is much more light than darkness."
3. "You're not a victim for sharing your story you are a survivor setting the world on fire with our truth-And you never know who needs your light, your warmth, and raging courage".
4. "She was powerful not because she wasn't scared but because she went on so strongly despite the fear".
5. "Our job is not to deny the story, but to defy the ending-to rise strong, recognize our story, and rumble with the truth until we get to a place where we think, 'yes, this is what happened, this is my truth and I will choose how this story ends'".
6. "I can be changed by what happens to me, but I refuse to be reduced by it".

This is the time to raise your voice... please fight against rape and prove that humanity is still alive.

Fataniya Roshni S.

S.Y.B.Sc. (Chemistry)

Self Confidence : First Step to Success

"Self confidence is the first requisite to great undertakings"

This world, in which we live, is a very competitive one. It is popularly described as a rat race, full of competent people and the fittest of them survives. Success is not a cake walk. One has to face lots of hardships and obstacles to taste success. The most important aspect in achieving success is self confidence.

However, people are ambitious but not confident enough to go for it. In fact, most of them don't know how to go about it or are terrified to take risks in their lives. Self confidence is not something which can be achieved in a day or two. Let us understand that we are not born with it. It's the situation we face, motivation from others and self motivation that make us truly confident. Hence those of us who feel that we lack confidence, have no reason to be upset.

There are 3 kinds of people. One, who dream big but do not have any idea how to pursue it. The second, who are over confident and end up ruining their opportunities. Lastly, the ones who are confident and have talent. This segment knows what they want and how to move further.

For attaining a goal, it is important to strive for it and work on the strategies relentlessly. It is necessary to make proper planning and follow up. We will come across ups and downs but should not lose focus and give up.

Work hard throughout and be focused until the desired result is achieved. Now, the questions arise as to what are the plans/strategies. At the outset, one has to be disciplined. It is not easy as it sounds, but requires lot of commitment.

However, it's not impossible. Take good care of physique as it is very important when it comes to self confidence. Healthy food habits and proper sleep are very much essential. Since hard work is involved, it is imperative that we do not lose hope or be disheartened. Knowing who you are and what your strengths are, is an area that requires our utmost focus. However, it depends on how we perceive it. Everybody has flaws, but we have to shine through them. Don't lose hope, be patient, take care of oneself and work hard. The puzzle will fall in place.

Vrutanshi M. Patel

T.Y.B.Sc. (Chemistry)

ZERO

(A Zero Very Remarkable Number)

Zero was first invented by an Indian mathematician. It was described by them to be the first digit in the number and the most useful in life. Then some Arabic travellers passed it on to the western countries who utilized it and made many developments.

Zero is a number which can be defined in an underfined manner. It has the shape of the geometrical circle, an alphabetical letter "O" and a geographical moon. It is really an outstanding number. If any number divides zero it comes to zero. If a number is divided by zero, the value which comes is undefined. Even a number with length more than that of the diameter of earth is multiplied to zero it comes to zero.

In mathematics it is considered as a whole number, a real number, an integer but not a natural number. In computers it is the most important digit of the binary number. A ball also resembles zero. It is the most wanted thing for any child. This shows that it gives us happiness. But when a child gets zero in his examination, it makes him gloomy. This shows the contrast of zero.

It has much importance in term of geography. Most of the natural things are in the shape of zero. All the planets, the sun and the moon, the stars etc. are all in the shape of zero. All of them provide us with light, and energy which is used by us for many processes.

It has many faces. It is a whole number in Maths but has many extraordinary properties. It gives extraordinary results in many cases.

Some of its extraordinary properties are as follows.

It is such a number which, seen from any angle, is the same. It is made of many points as other numbers but dissimilar to others as all its points are curved. If added to the end of any number it increases the number by ten times. This shows that its value is much more than any number. It is neither a prime number nor a composite number or an odd number but an even number. It has such a vast meaning that it would take a thick book to write all about it. Swami Vivekananda, an American, was asked to speak on zero. He spoke for three days on it and the reporters and other people were stunned by his speech which brought to light many properties of zero.

The whole world looks inverted in the mirror but it is the only figure which from any angle looks the same. A circle also resembles a zero so it should have some properties which are different from others. A zero is a very remarkable number and shall have its use will we really come to know the value of infinite. A zero shall always be there till the sun and moon are present in this universe as their shape is also similar to zero.

Nimesh Solanki

T.Y.B.SC. (Mathematics)

Enjoy the Journey as much as Destination

Journey- it is a mixture of happiness & sadness, success & failure, love and hatred, believe & sorrow... Human Mentality and perspective. Always worried for the results, whether it's life or examination and then they miss the happiness of journey and learning of life.

The voyage of life is full of adventure and surprises. Cheer the beauty of journey too, without being much obsessed for the results.

Even if the destination is not as expected learn from it, don't make it burden on you, instead be in the present and enjoy it.

"No two persons, ever read the same book" – Edmund Wilson

Journey through that book, interpretation is different for different people irrespective of the same book.

Be excited about the process, not the outcome, that's What written in Bhagvad Gita. Don't be preoccupied for the results.

When you will remind yourself that it is the journey that matters, You will allow yourself to be in present and be joyfull in it.

Goals may keep on changing but we will learn from every moment towards the destination, and will be more creative with new approaches to your goals. Happiness actually comes before the goal is completed.

Life is a journey with problems to solve, lessons to learn, but most of all, experiences to enjoy.

Life is not always perfect.

but it's always what you make it

So make it count, make it memorable...

Dhruviben Shah

S.Y.B.Sc.

Teenage Limbo

The teenage years are limbo. You are stuck in a place where you are neither a small innocent caterpillar nor a wise grown butterfly. You are somewhere between being a kid and an adult. Everything seems to fall out and nothing really works. You are in a constant quarrel with the world and sometimes with yourselves too. The world tells you to be mature and express yourself, but the minute that you do, they shut you up. The world expects you to not follow the flock and be different, but the second you do, they ask you the reason for the same. Your parents pressure you to succeed, your friends pressure you to do things that you don't want to, social media pressures you to hate your body and sometime yourself too. Everything seems to be apocalyptic to a teen, doesn't it ?

When you are a teenager, the chemicals in your brain drive you to make decisions that rip you away from the safety of your childhood and drag you into the wilderness of adulthood. But what it means to be a teenager? Some chemical reactions and hormones just cannot define it. Moreover, it neither can be described as a simple increase in growth hormone and release of gonadocorticoids. The change is lively and beautiful, but not exactly magical as they show in the movies.

You are never more alive than when you are a teenager. Teenage brain upgrades itself before going to the adult stage. The upgrade is like the explosion of connections and synapses as we figure out what is right and what is not, what we like and what we do not, who we are attracted to and who we are not. Who WE WANT TO BE. Your brain is flushed with chemicals that can turn your life into a story of epic proportions. An A-minus feels like the Pulitzer, a long Saturday night is an eternity of solitude, and your project partner becomes the great love of your life.

Teen life is a very unpredictable process, which is different for each and every teenager. However, some common troubles faced by every teenager exists too. Majority movies have surely failed to portray the complex teenage life, but many famous authors have described the teenage complications perfectly on the pages. I am sure we all agree that the hardest part of teenage years is heartbreaks and betrayals that has been proven to be the major factor to shape one's character in future. Now imagine you cannot be with the person that you love, like Romeo and Juliet or Werther, or you lose the person you love.

Adolescence in today's era has become more stressful and traumatic due to the exposure to the social media. Many young people face backlash and hate on different social media platform, which makes them to dual life, the beautiful and filtered life on social media and the other ugly and painful reality. According to recent studies, the percentage of teenagers facing bullying, sexual harassment,

depression and anxiety is increasing by a constant rate, which can be a major threat to children in near future. It's sad that majority of youth that faces these problems are the ones who do not fit in society's old world classification based on their expired stereotypes. Many of us, youth and adults alike do not seem to care about these issues because we don't experience it by ourselves, but they are real otherwise. Issues like body shaming, mental health taboos and homophobia along with many others, which are one of the biggest reasons due to which youth is facing bullying and depressions, are still not talked about due to old stereotypical and orthodox mentality. This needs to change for good; all of these problems should be talked about. Teen age is like the phase where final fresh pot of clay is made in a pottery class of life that will harden in no time and get permanent; all the scars formed on the claybody will become everlasting if not undone. So, I reach out to every young person and adult to talk about this before it makes a permanent scar.

So one angsty teenager to another, if you have any problem, talk with your parents or with any of your friends who you trust the most. Love whatever and whoever you want. Eat what you like and do what makes you comfortable. Do not try to fit in. Believe me, fitting in certainly does not help, but I can assure you standing out does. Don't be afraid of what people say on your back. Just live your life as YOU like.

Nirav Parmar

T.Y.Zoology

“ THREE THINGS ”

Three things to Love,
Purity, Honesty and Hardship.
Three things to Cultivate,
Courage, Cheerfulness and Contentment.
Three things to Maintain,
Promise, Friendship and Affection. Three things to Admire,
Beauty, Intelligence and Character.
Three things to Watch, Speech, Behaviour and Action.
Three things to Control,
Mouth, Temper and Mind. Three things to Prevent,
Laziness, Falsehood and Slander.
Three things to Respect, Old age, Religion and Law.

ANURAG V PANDEY

T.Y. B.Sc (Chemistry)

Letter to My Younger Self

To,

13 Year old Charmi,

First of all, let me tell you that you're doing great in your life. The people around you may make you feel inferior but always remember you're unique and that is your super-power some of your friends may leave you at your worst but that's not end of the world. You are going to fight against every problem, may be alone but just like a warrior.

The people right now telling you that they will stay forever may leave you at some point of life but that will teach you to love yourself even more. You're bit pessimistic right now but try to be more optimistic and see how world will seem the most beautiful. Stop being very stubborn, it is okay if the things don't occur according to your way. Always open your mind to accept the different prespective of other people.

The one thing that stayed with me till now is the way you study. You never crammed in academics and always tried to learn the concept. You are getting average marks right now but trust me you're going to ace in college with your learning habit.

You've been always introvert person and that is fine but it is okay to open up to people too. Crying in front of others don't make you weak, it shows you have enough courage to open up. Don't let people to invade your privacy but don't push away them either.

Apart from all this, You are doing very well and you are more mature than people of your age. I love you and I can't wait you to be at my age and experience the most beautiful things of this world.

From

Your bit matured 20-year old,

Charmi R. Jinwala

T.Y. B.Sc. Zoology

I am strongest Woman....

Make sure you are strong,
Make sure you fight for your own,
You are beautiful, you are adorable,
No matter how people treat you,
No matter how ever they blame you,
Important is to treat yourself best of all,
No one can stop you until you band down by our side,
Be a single sailor of your life boat,
Love yourself the way no one did before,
Groom yourself every single day a bit more.
Focus on your every move and try to understand yourself first,
Be capable that much to fulfill atleast your own demand,
Enjoy every seconds, every minute, every moments, the way you wants,
Stay with those cares about you life too,
Have that special feeling and treat them more special than they do,
Show your anger, frustration, overthinkness, stress, highs, lows, happiness,
insecurities,
judgements, every single thing to the world.
Listen to everyone but do what you think is right
Say yourself every morning:
"I am the strongest woman & No one can stop me no matter what

Kruti Ranjitisinh Viharia

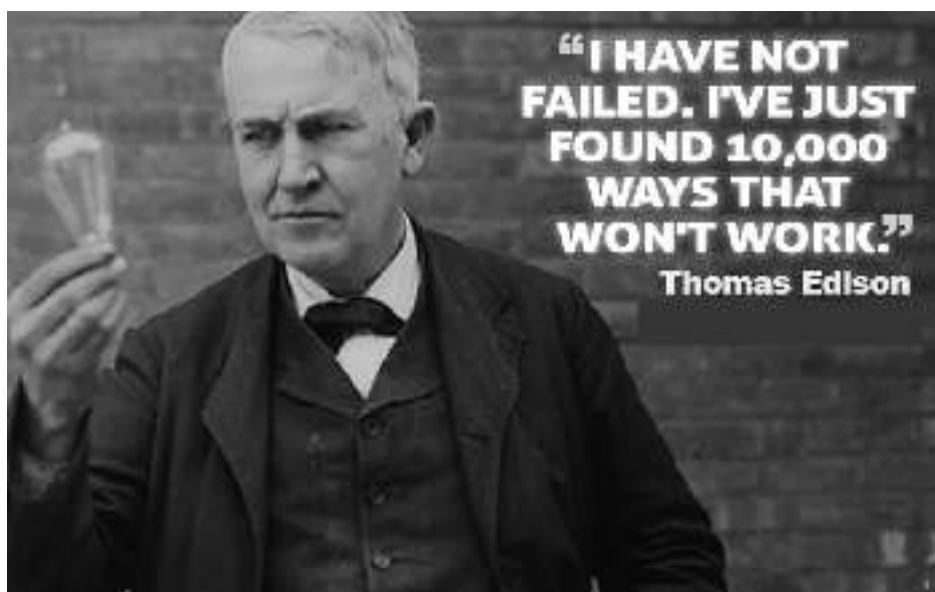
T.Y.B.Sc.Chemistry

CHIKU & DEVU

Oh ! What a happy twist of fate
has brought you to my gate !
the gate where one another stood
pleading roof, warmth & food ?
from that day I ceased to be the master of my destiny; while CHIKU,
with purr and Velvet paw became within my house the LAW !
DEVI, a gratifying gift by my brother; a loving friend,
gentle eyes that observes so much, Paws that have a strong touch
bark that signs "All is Well"
& Shows more Love, than words never tell !
For the wag of a tail, angel with whiskers & fur to no other friend would I never go
to confide my fears and lick away tears
to run and jump and gyrate all around
there is no better friends, that I've ever found !
A friendship that takes time to grow, small wonder why we love them so...
By the way, CHIKU is my CAT
DEVU is my DOGGY !!!

Raj Mukeshbhai Patel

T.Y.Chem. Dept.



Nights Are Young

Those stars in the dark sky
Made me to feel like someone's holding me
To stay there for lifetime
Soft moon light,
Made me fall in love
With the dark nights
Silence of winds,
Taught to be clam
In every circumstance of life
A little shine of each star
Cheering me to shine
Like a shooting star on my way
Nights are quieter
And warm like a hug by mom
Too fragile to hold on as it is.
Nights are young

Varsha Makwana
T.Y. Microbiology

FRIENDSHIP

Marriages, they say, are made in Heaven
But friends, like pearls, are picked & chosen.
Yet blessed are those who possess a friend
Who is steadfast and sincere till the end.

Friends are those who extend a hand
When you are sinking into deep quicksand
Friends are like candles burning bright
Taking care of you with their guiding light

Friends are those who like glue and stick
Through times that are thin and thick
Friends are those who willingly share
Both mirth and misery with equal care

Friends are those who lend a ear
To hear your anguish and bring you cheer
Friends are those who lend their shoulder
In times of distress to make you bolder

"Showers and Flowers
Last for a few hours
But friendship has such power
It lasts Forever"

ANURAG V PANDEY
T.Y. B.Sc (Chemistry)

The wait is Over

I walk through the field of my favourite flowers,
I can be here for hours and hours;
I spot you standing there,
Looking at me like I have superpowers.
 The blue flowers catch my eye,
 they're as beautiful as the sky.
 You put it on my hair and give me a smile,
 that makes me afraid of saying goodbye;
The wind is soft and serene.
The grass is a perfect shade of green,
You are holding my hand tight,
This is the happiest I've ever been;
 You feel like a human form of sunshine.
 Our fingers are perfectly intertwined
 My hands are sweating.
 I feel like all the stars have aligned;
So this is where it starts.
The healing of two broken hearts,
I've waited so long for you,
Now I don't wanna be apart.

Farhin Hemoptra

S.Y.B.Sc.

Why....?

I'm trying to Remind,
 What's heppening in my mind..
I cannot understand,
 It's nothing in my hand...
It's a feeling that I can't feel,
 It's wound that I can't heal...
Time is behaving like a stranger,
 Thought are acting like a changers...
People Say my words are lie,
 I don't know it's happening, why?

R.S.Ranjeet

First Rain

Cloudy sky with cold winds
Blur moon without stars.
Dark sky as lightern my mind.
Peace of victory and precious time.

Silent night with insects voice.
A line of light appear with noise.
Look at the sky, I open my eyes
A drop of water wet them slight

Fregment of sand make me mad.
Wanted to eat but I just can't
Sound of water hill my heart
That first rainwater was amazing that's right.

Beautiful sky with fresh air.
That sunshine was really rare as well.
Flowers are blooming as leaves are wet.
That morning after rain was not everywhere.

Charmy J. Prajapati

T.Y.Chemistry

Life is worth Living

The sun is rising, and the birds are chirping,
What a beautiful day it is to start reviving,
But I ask you how you're doing
and you say you feel like dying
Well, the life is beautiful
and the lord is forgiving
So let's start thanks giving
and make the life worth living.

Farhin Hermotra

S.Y.B.Sc.

She is not a whore

She works at nights
She works in the bars
She is a member of unusual drives
She is a part of every single night.
But darling,
She is the only owner of herself
She owns her body
An angel, who lives in the hell.
Her clothes may tight
Her breast can be broad
Her waist can be thin, as you want
Her smile is the place, you slip everytime
But sweetheart,
She is not yours,
Her body, her look
Her stunning attitude
Just can't be yours.
Hey darling,
She is the one, who gave you birth
She is the reason of your presence
She is the place, from where you belongs to
You can't own her, but she owns you.
Hey handsome,
You can be her lover
And she is there to be loved,
Respect her, deep from your heart
Because,
Hey love,
SHE IS NOT A WHORE.

Varsha Makwana

T.Y.Microbiology

AMATOXIN

A mushroom or toadstool is the fleshy, spore-bearing fruiting body of a fungus, typically produced above ground, on soil, or on its food source. Many mushrooms are edible but some are poisonous. The major content present in these mushrooms is amatoxin and phallotoxin. Amatoxin containing mushrooms are a rare but significant cause of acute fulminant liver failure. However, not all *Amanita* species have this toxin, and other mushroom species besides *Amanita* have the amatoxin. Ninety-five percent of deaths from mushroom ingestions worldwide are from amatoxin-containing mushrooms. There are thousands of species of mushroom, but only about 50 to 100 of these are toxic to humans. The *Amanita* species are responsible for the majority of mushroom toxicity cases in humans. The *Amanita* mushrooms contain both amatoxins and phallotoxins. The amatoxins interfere with protein synthesis and cause liver failure. The amanitin toxin is heat stable, remaining toxic whether eaten raw or cooked. The mechanism of action of amatoxin is by inhibiting RNA polymerase, causing disruption of transcription of mRNA. As a result, hepatocytes cannot synthesize key protein coding genes, leading to the disintegration of nucleoli and pathologically centrilobular hepatic necrosis. This leads to the insidious onset of liver failure over 48 hours. Late onset (more than six hours after ingestion) of vomiting and watery diarrhoea occurs due to the second component in some of these mushrooms which are phallotoxin. *Lepiota* species lack phallotoxins so may not have the onset of vomiting and diarrhoea until after 12 hours post-ingestion, or may just present with symptoms of liver failure at 24 hours post ingestion. Amatoxins are rapidly absorbed from the intestine and transported into the liver by OATP transporters. Once in the hepatocyte they start to inhibit RNA polymerase. It takes about 24 hours before any signs or laboratory indicators of liver injury begin to appear. Amatoxin containing mushroom species are

***Amanita* group:** *Amanita phalloides* (Death Cap), *Amanita virosa* (Destroying Angel), *Amanita verna* (Fool's Mushroom), *Amanita ocreata*, *Amanita bisporigera*, *Amanita suballiacea*

***Lepiota* group:** *Lepiotahelveola*, *Lepiotachlorophyllum*, *Lepiotabrunneolilacea*, *Lepiotajosserandi*, *Lepiotafulvella*, *Lepiotasubincarnata*, *Lepiotabrunneoincarnata*

Miscellaneous : *Galerina autumnalis* (Autumn skullcap), *Galerina venenata*, *Galerina sulcipes*, *Conocybifilaris*

The treatment of Amatoxin mushroom toxicity is predominately supportive care. There is no specific antidote. The patient must have two large bore IVs and fluid loss, electrolyte deficiency, and glucose should be normalized. If the patient presents early (within two to four hours,) decontamination with oral activated charcoal may

be performed. Several agents have been used and have anecdotal support in the literature are N-acetyl-cysteine, Penicillin, Silymarin, Activated charcoal etc. A variety of other therapies, such as intravenous cimetidine or thiocetic acid, have been tried but have only animal model support.

Archana Panchal

S.Y. Micro

My best Friend...

Mum you are a shining star,
Because of you I get this far.
You have always wanted for me,
to be the best I could be.
You shaped me to be the girl that I am today.
You taught me how to laugh and play,
Because of you I am who I am today.
For those who depend on me today I will
do the same you had done for me back.
But now it's impossible for me to imagine
even a moment without you.
Right from Birth taking the labour pain to all
the sacrifices you did for my nourishment.
It proves you.
Your profession deserves the highest love, care and respect.
Thank you mum for getting too close,
and standing behind me in every situation.
I love you mum from dusk till dawn,
I wish I could repay all that you did for me,
I will make you proud one day,
Because shining star produces a shining star.
and I promise you to make you shine one day.
"No Matter what age... I'll always need you mom."

Vahora Saniya Y.

S.Y.B.Sc. Chemistry

The Brave : Param Vir Chakra Stories

The book paints a vivid portrait of 21 courageous soldiers and awardees of the Param Vir Chakra (PVC), the nation's highest award for gallantry.

Rachna Bisht Rawat takes us to the heart of war, chronicling the tales of twenty-one of India's bravest soldiers. Talking to parents, siblings, children and comrades-in-arms to paint the most vivid character-portraits of these men and their conduct in battle, and getting unprecedented access to the India Army, Rawat has written the ultimate book on the Param Vir Chakra.

Apart from narrating valiant tales from the battlefield, the book also traces the lives of these extraordinary men, some of whom include India's first PVC recipient, Major Somnath Sharma who died while fighting the 1948 India-Pakistan war, Major Dhan Singh Thapa who lost his life in the Sino-Indian war of 1962 and Captain Vikram Batra (1999 Kargil operations)

Divided into sections like the Indo-Pak war (1947-48), Congo (1961), the Sino-Indian war (1962), the second and third Indo-Pak was (1965, 1971), Siachen(1987), Operation Pawan (1987-90) and Kargil war (1999), the book is an inspiring read, replete with anecdotes.

The Brave takes you into the hearts and minds of India's bravest soldiers, all of whom won the Param Vir Chakra, India's greatest military honour. With access to the Army and the families and comrades-in-arms of the soldiers, Rachna Bisht Rawat paints the most vivid portrait of these men and their extraordinary deeds.

How hard is it to fight at 20,000 feet in sub-zero temperatures ? Why did captain Vikram Batra say 'Yeh dil maange more'? How do the wives and girlfriends of soldiers who don't return cope ? What happens when the enemy is someone that you have trained ? How did the Charlie company push back the marauding Chinese ? How did a villager from Uttar Pradesh become a specialist in destroying tanks ?

Both gripping and inspiring, The Brave is the ultimate book on the Param Vir Chakra.

I absolutely loved reading these stories. It reminds us of how young men, most of them in their early 20s gave the biggest sacrifice for their country. Its just filled with stories of grit, determination, and sheer will to fight for the country despite odds heavily stacked against their favour. Its really heart-breaking to know about the conditions in which the soldiers had to fight. Lack of equipment, planning support, etc. The only thing that was constant was courage.

Twinkle Singh

F.Y.B.C.A.

મેટાવર્સ : ઇન્ટરનેટનું ત્રીજું સ્વરૂપ

એકવીસ મી સદીના એકવીસ વર્ષમાં આપણી દુનિયા ઘણી બદલાઈ ગઈ એવું લાગે છે! આવો અભિપ્રાય રાખવાની ઊતાવળ કરશો નહિ, નજીકના થોડા વર્ષોમાં આનાથી પણ વધારે બદલાવાની છે. સોશિયલ મીડિયા ફોટો, વિડીયો મૂકવાનું, ગેમ્સ, ઓનલાઈન શોપિંગ કે પેમેન્ટ તમને ના આવડતું હોય તો શીખી જજો નજીકના વર્ષોમાં ઘણું બધું શીખવાનું થશે!

આ એકવીસમી સદીના એકવીસ વર્ષ પહેલા સુધી આપણે કલ્પના પણ નહોતી કરી કે બધુંજ કામ કાજ આંગળીના ઈશારે ગમે ત્યારે ગમે ત્યાંથી કરી શકીશું. એવું જ કંઈક આ મેટાવર્સ ટેકનોલોજીનું છે. ફેસબુકના માલિક માર્ક ઝુકરબર્ગે થોડા સમય પહેલા જ તેમના ઇન્ટરવ્યુ અને મીટીંગમાં આ મેટાવર્સ શબ્દ ગાજતો કર્યો. તેના પરથી તેમણે પોતાની કંપની ફેસબુકનું નામ બદલી મેટા રાખ્યું. આ મેટાવર્સ એ Internet of things થી આગળ Internet of everything છે.

થોડા વર્ષ પહેલા એટલે કે ઇન્ટરનેટના આગમન પહેલા આપણે રેડિયો, ટીવી દ્વારા ફક્ત સાંભળી અને જોઈ શકતા હતા. ત્યારબાદ ઇન્ટરનેટનું નિર્માણ થયું શરૂઆતમાં એ પણ રેડિયો, ટીવીની જેમ મર્યાદિત હતું. એટલે કે આપણે દુનિયાને કંઈ જણાવવું હોય કે પછી આપણે દુનિયાનું કંઈક જાણવું હોય. પછી આવ્યું ઇન્ટરનેટનું બીજું સ્વરૂપ, સોશિયલ મીડિયાનું સર્જન થયું. તેના યુઝર દિવસે ને દિવસે વધતા ગયા. આમ છતા હજી પણ ઇન્ટરનેટ, ટેક્સ્ટ, ઈમેલ, ઓડિયો અને વિડીયો પરતું સીમિત રહ્યું છે.

‘મેટા’ એટલે વધારાનું અથવા વિશેષ તેની સાથે ‘યુનિવર્સ’ શબ્દ જોડીને આ ‘મેટાવર્સ’ શબ્દ બન્યો છે. અર્થાત રોજીંદી દુનિયાથી વિશેષ બીજા શબ્દોમાં કહીએ તો ‘મેજિક વર્સ’, ‘સ્પેશિયલ ઇન્ટરનેટ’, ‘3D વર્ચ્યુઅલ વર્લ્ડ’, ‘મેટાવર્સ’ ને ટૂંકમાં કહીએ તો આપણી આસપાસની દુનિયાનું “ડિજિટલ સ્વરૂપ”. મેટાવર્સ આ આપણે ઇન્ટરનેટના માધ્યમથી એક જ સમયે જુદા જુદા અનેક અનુભવ કરી શકીશું. જેમ કે ફેસબુક કે ઇન્સ્ટાગ્રામ પર આપણે લાઈવ સ્ટ્રીમમાં કનેક્ટ થઈ ને જુદો જુદો જગ્યાએ રહેલા મિત્રો સાથે વાત કરી શકીએ છીએ, તેજ રીતે મેટાવર્સ ટેકનોલોજી મદદથી આપમો મિત્ર ડાન્સર પાર્ટી વર્ચ્યુઅલ રીતે ગોઠવશે તો આપણે વર્ચ્યુઅલ રીતે જોડાઈને મિત્ર સાથે ડાન્સનો અનુભવ કરી શકીશું. હાલમાં આ ટેકનોલોજી ના સિધ્ધાંત આધારિત VR Headset નામનું એક સાધન શોધાયું છે.

આ મેટાવર્સ ટેકનોલોજીથી આપણી રોજીંદી દુનિયામાં ઘણું બધું બદલાશે જેમ કે વર્ચ્યુઅલ ટ્રાવેલ, વર્ચ્યુઅલ શોપિંગ, વર્ચ્યુઅલ ક્લાસ કે મિટીંગ અને એન્જિનીયર્સ, આર્કિટેક્સ માટે સરળ બનશે. તેઓ અલગ અલગ જગ્યાએથી વર્ચ્યુઅલ કોલોબરેશન અને મિટીંગ કરી શકશે. ગયા વર્ષે ઈજિપ્ટ દેશે તેમના ઐતિહાસિક જગ્યાઓનું વર્ચ્યુઅલ ટૂર્સ લોન્ચ કરી હતી.

હાલમાં આ નવી નવી ગેમિંગ લાઈવ સ્ટ્રીમિંગ ના કારણે આ સ્થિતિ બદલાઈ છે. તે બિલકુલ નવી દુનિયામાં ઘણા નવા અનુભવ કરાવે છે. આના આધારિત “Free Guy” નામનું એક ફિલ્મ પણ બન્યું છે. આ ઇન્ટરનેટથી આપણે ઘણો ફાયદો પણ થઈ શકે એમ છે. જેનું ઊદાહરણ આપતો પ્રખ્યાત કિસ્સો પણ છે, ભારતના સુપ્રસિધ્ધ કાર્ડિયોલોજિસ્ટ પદ્મ શ્રી ડૉ. તેજસ પટેલ, તેઓ પોતે ગાંધીનગરના અક્ષરધામ સંકુલમાં હતા અને તેમનો દર્દી ૩૨ કિલોમીટર દૂર અમદાવાદમાં તેમના હોસ્પિટલના ઓપરેશન થિયેટરમાં હતા. આટલું અંતર હોવા છતા ઇન્ટરનેટનો ઊપયોગ કરી તેમણે ઓપરેશન સફળ કર્યું હતું. તંદુરુપરાંત આ ઇન્ટરનેટના વધારે પડતો ઊપયોગ અને સાવચેત રહ્યા વગરનો ઊપયોગ આપણા જીવનને નુકશાનકારક છે. આ વિષય પર પમ ઘણા ફિલ્મો બન્યા છે. જેમ કે સયય, મશલશર્ફિલ વિંચશર વગેરે.

આ ‘મેટાવર્સ’ ના કોનસેપ્ટને ટૂંકમાં સમજીએ તો “પોતે જ્યાં વાસ્તવિક રીતે નથી ત્યાં વર્ચ્યુઅલ પહોંચી કંઈક કરવું” તમને શું લાગે છે! આ મેટાવર્સ આપણા માટે બેકાર છે કે ખરેખર ઇન્ટરનેટનું ભાવિ બનશે.

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- ❖ હાલમાં ઊર્જા ઉત્પાદન યંત્રો અને વાહનો ચલાવવા માટે પેટ્રોલિયમ તેલ વાયુ અને કોલસા જેવા અશ્મિભૂત બળતણો વાપરવા પડે છે. પ્રદૂષણનું સૌથી મોટું કારણ આ કુદરતી તેલ ગેસ અને કોલસો છે. તેનો વપરાશ બંધ કરી વિકલ્પ તરીકે કુદરતી સ્ત્રોતમાંથી પેદા કરેલી સસ્તેનેબલ ઊર્જા પેદા કરવાની ટેકનોલોજી ના પ્રત્યનો જોરશોરથી ચાલી રહ્યા છે. જેથી પર્યાવરણની ગંભીર અસરો ટાળી શકાય.
- ❖ વીજળી એ મહત્વનું ઊર્જા સંશોધન છે. પરંતુ મોટાભાગની વીજળી કોલસો બાળીને પેદા કરાય છે. બીજી તરફ વર્ષ ૨૦૫૦ સુધીમાં વીજળીનો વપરાશ ૬૦% જેટલો વધશે. વસતિ વધશે. ઉપરાંત ફોસિલ ફ્યુઅલનો વપરાશ બંધ થશે. તેથી મોટરકાર, સ્ટવ અને ઠંડા પ્રદેશોની હિટિંગ સિસ્ટમો, વીજળી આધારિત સ્કુટરો અને મોટરબાઈકોની મોટી ડિમાન્ડ ઊભી થશે. માણસજાત આર્થિક વિકાસ સાધતી જશે તેમ તેમ આયત વધશે. વળી ઈલેક્ટ્રિક અને ઈલેક્ટ્રોનિક્સ સાધનોમય જગત બની રહ્યું છે. આર એ છે કે માણસને જ્યારે વીજળીની વધુ જરૂર હશે ત્યારે જ તેના પુરવઠામાં અનિશ્ચિતા પેદા થશે.
- ❖ આજના સમયમાં જગતની વીજળી વ્યવસ્થા આપસમાં સંકળાયેલી છે. આથી દુનિયામાં કોઈ એક સ્થળે વીજળીની છત કે અછત જાણાય તેની અસર અન્યત્ર દૂરના પ્રદેશો અને પ્રવૃત્તિઓ પર પડે છે. એક ઉદ્યોગ પર અસર પડે તેની બીજા ઉદ્યોગ પર બીજા ની ત્રીજા પર એમ અસર આગળ વધે છે. હાલમાં ચીનમાં કોલસાની તંગી અને વિજળીની આપત્તિ વિશેના સમાચારો ફેલાય ત્યારે જ ચીનની અમુક કંપનીના શેરના ભાગ નીચે ઊતરી ગયા હતા. વીજળીની ગેરહાજરી સિલિકોન કોબાલ્ટ વગેરેનું ઉત્પાદન બંધ થઈ જાય લોખંડ, તાંબુ અને બીજી ધાતુના ઉત્પાદન બંધ પડે માલ પરિવહન વગેરે બંધ પડે. જે પ્રમાણે કોલસો વગેરેની અસ્વચ્છ ઊર્જાના એકમો કામ કરતા થાય તે સમતુલા જાળવતી જવી પડશે.
- ❖ વીજળીના ઉત્પાદન માટે બે વિકલ્પો પર મદાર રાખીને દુનિયા આગળ વધી રહી છે. (૧) સૂર્ય અને પવન ઊર્જા (૨) હાઈડ્રોજન ના દહન થી ઊર્જા.
- ❖ સૌર અને પવન ઊર્જાના છેલ્લા એક દશકમાં નોંધપાત્ર પ્રગતિ થઈ છે. પરંતુ આ રિન્યુએબલ ઊર્જા સ્ત્રોતો ખૂબ અસ્થિર છે. પવન અને સૌર ઊર્જા જરૂર હોય ત્યારે ન પણ મળે અને તેને જરૂરી માત્રમાં સંગ્રહવાનું મુશ્કેલ છે.
- ❖ હાઈડ્રોજનની વાત કરીએ તો ઘણા દેશો અને કંપનીઓ હાઈડ્રોજન પર મોટી આશા રાખીને બેઠા છે. ભારત સરકારનું ઈન્ડિયન ઓઈલ કોર્પોરેશન પણ હાઈડ્રોજન ને ભવિષ્યનું અસરકારક ઈંધણ માને છે. ઈલેક્ટ્રોલાઈઝર મશીનો વડે તેને માત્ર હવામાંથી છૂટું પાડીને પ્રાપ્ત કરવાની જરૂર રહે છે. જો તેની ટેકનોલોજી આસાન અને ફૂલપૂર્ણ બને તો તે ગમે ત્યાં રહીને પ્રાપ્ત કરી શકાય. તેના કારણે પ્રદુષણાં બિલકુલ વધારો પણ ન થાય જો કે આ ટેકનોલોજીનો પૂરો વિકાસ થવા માટે વરસો વાગી જશે.
- ❖ આમ હાઈડ્રોજન એ ચોક્કસ એક સારો ગ્રીન ઊર્જા સ્ત્રોત છે. ભવિષ્યમાં હાઈડ્રોજન એક ગ્રીન ઊર્જા સ્ત્રોત તરીકે પ્રદૂષણ મુક્ત વાતાવરણ બનાવવામાં કારગર હશે.

Vaza Rahul R.

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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. માનવજીવનના ધ્યેયને સમજવા માટે એ પ્રયત્નો કરે છે. આવા તબક્કા દરમિયાન તે યુવા પોતાના આસજનો, અનુભવી વ્યક્તિઓ પાસેથી યોગ્ય માર્ગદર્શનની સ્વાભાવિક અપેક્ષા રાખે જ છે. ભારતવર્ષની આ પુણ્યધરા પર હજારો મહાનુભાવો જન્મી ચૂક્યા છે. પરંતુ તે દરેકમાંથી યુવાઓને સૌથી વધુ માર્ગદર્શન પૂરું પાડનાર જો કોઈ હોય તો તે સ્વામી વિવેકાનંદજી છે. આથી જ તેઓ યુવાનોમાં સૌથી પ્રિય પાણ છે.

સ્વામીજીએ 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 ઊભરાતાં સો યુવાનો મળી આવે, તો આ જગતની સૂરત પલટાઈ જાય.’ પરંતુ આ જગતની સૂરત રજી 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 આગળને આગળ વધતાં રહીએત. તે માટે સ્વામીજીનાં વિચારોને સમજ્યાની જાણવાની ચકાસવાની અને તેને આચરણમાં લાવવાની જરૂર છે.

સ્વામીજીએ ‘શરીર માદ્યં ખલુ ધર્મસાધનમ્’ મુજબ 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. ને જો યુવાવસ્થામાં જ ‘શરીર એ એક સાધન છે, હું શરીર નથી’ 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 શ્રી કૃષ્ણની વિરાટ પ્રતિભાને વધુ સારી રીતે સમજી શકશે.”

હવે, આધ્યાત્મિક વિકાસ કરવો એટલે સતત ગંભીર બની જવાની વાત નથી. સ્વામીજી કહેતા, “આપણાં યુવાનોએ આનંદી અને ઉત્સાહી બનવું જોઈએ. ઉદાસીન ચહેરાઓ કોી ધર્મનું નિર્માણ કરી શકે નહીં. ધર્મ તો જગતની સૌથી વધુ આનંદપૂર્ણ વસ્તુ છે!” પણ અહીં પ્રશ્ન થાય કે સત્ 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 દરવખતે બાહ્ય-પરિસ્થિતિઓને કારણે જ દુઃખી થતાં હોઈએ છીએ. જો આપમું ધ્યન સતત બહાર હોવાને બદલે આપણાં (ભાવો, વિચારો) પર હશે તો એક સમયે 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!”

તો આવો, આપણે સૌ યુવાઓ આ અવિરત પ્રેરણા-પ્રવાહમાં અગાધ ડૂબકી લગાવીને સ્વામીજીએ ઈચ્છેલા એ સો યુવાનોમાં સ્થાન મેળવા સક્ષમ બનીએ.

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શોધ

ઘણી વખત આપણા વાંચવા કે સાંભળવામાં આવે છે કે અમુક વ્યક્તિએ અમુક વસ્તુની શોધ કરી. હવે પ્રશ્ન એ થાય કે ખરેખર શોધ કરવી એટલે શું? સામાન્યતઃ એવો જવાબ મળે કે, “વિશ્વમાં જે અગાઉ અસ્તિત્વમાં ન હોય એવી વસ્તુ કે બાબતને વિશ્વ સમક્ષ રજૂ કરવી એટલે શોધ કરવી”.

પરંતુ મારા મતે શોધની આ વ્યાખ્યા પૂરતી નથી. મારા મતે શોધ એટલે બે તબક્કામાં વિભાજિત પ્રક્રિયા. જેમાંનો પ્રથમ તબક્કો છે- પ્રકૃતિમાં રહેલ કોઈ એવી વસ્તુ કે બાબત કે જેનાથી માનવજાતિ અજાણ છે, તેને નિરીક્ષણથી જાણવી.

દાખલા તરીકે, જોસેફ પ્રીસ્ટલી (Joseph Priestley). તેમણે વર્ષ ૧૭૭૨માં ઓક્સિજન પ્રાણવાયુની શોધ કરી હતી. તો શું પ્રીસ્ટલીએ પ્રાણવાયુનું નિર્માણ કર્યું હતું? શું વર્ષ ૧૭૭૨ પહેલાં પ્રાણવાયુ અસ્તિત્વમાં નહોતો? ના, એવું નથી. માનવજાતિના ઉદ્ભવ થયાના વર્ષો પહેલાં પણ પ્રાણવાયુનું અસ્તિત્વ હતું. એટલે પ્રીસ્ટલીએ પ્રાણવાયુનું નિર્માણ નહોતું કર્યું. તેમણે પ્રાયોગિક રીતે એક વાયુને ‘જોયો’ હતો, તેનું નિરીક્ષણ કર્યું હતું. તેઓએ આગળ જતાં એ પણ નિરીક્ષણ કર્યું હતું કે આ એ વાયુ છે કે જે દરેક જીવંત વસ્તુમાં આવાગમન પામે છે. પછી તેમણે તેનું નામકરણ કર્યું. આમ, શોધમાં પ્રથમ તબક્કો નિરીક્ષણનો છે.

બીજો તબક્કો છે-પરીક્ષણ અને સર્વેક્ષણનો. અહીં ખાસ ધ્યાન રાખવા જેવી બાબત એ છે કે પરીક્ષણ અને સર્વેક્ષણ સંવાદપૂર્વક થવા જોઈએ. અહીં આ ‘સંવાદ’ને સમજીએ, કોઈ સાર્વત્રિક નિયમને જાણવા માટે એકથી વધુ માનવો વચ્ચે વિચારોનું આદાનપ્રદાન ત્રણ રીતે શક્ય છે:- ૧) ‘વાદ’ પૂર્વક અર્થાત્, આમ જ હોવું જોઈએ એવા ભાવ સાથે, ૨) ‘વિવાદ’ પૂર્વક અર્થાત્, હું કહું છું તે મુજબ જ હોવું જોઈએ એવા ભાવ સાથે અને ૩) ‘સંવાદ’ પૂર્વક અર્થાત્, ચાલો સાથે મળીને જોઈએ કે ખરેખર છે શું, એવા ભાવ સાથે. આમ, બીજો તબક્કો સંવાદપૂર્વક થાય એ શોધ માટેની અનિવાર્ય શરત છે. છેવટે, આ બંને તબક્કા પૂર્ણ થયા પછી શોધ થઈ ગણાય એવો મારો મત છે.

અત્યાર સુધીની માનવજાતિની આ ધરતી પરની યાત્રા જોઈએ તો તેમાં અનેક શોધો થયેલ છે એમ જણાઈ આવશે. પરંતુ સ્વાભાવિક રીતે પ્રશ્નો થાય કે શોધનું અંતિમ પ્રયોજન શું? તો એના ઉત્તરમાં પ્રતિપ્રશ્ન કરી શકાય કે માનવજીવનનું અંતિમ લક્ષ્ય શું? છેવટે તો માનવને સુખ જ જોઈએ ને? તો, માનવ દ્વારા થયેલ દરેક શોધ માનવના સુખના અર્થમાં છે એમ કહી શકાય વળી પ્રશ્ન થાય કે આટલાટલી શોધ થયા પછી પણ શું આજે આ ધરતી પર કોઈ એવો માનવ છે ખરો કે જે પોતાને ૨૪x૭ - નિરંતર સુખી ગણાવી શકે? ઘડ દઈને જવાબ મળશે, ના! તો પછી ક્યાં ક્ષતિ રહેવા પામી છે એ જોવું જ રહ્યું.

ધ્યાન આપવાથી જણાશે કે આપણે પૈસા, રંગરૂપ, સ્ટેટસ વગેરે દ્વારા સુખનું નિર્માણ કરવા માંગીએ છીએ, આપણે સુખને ‘Invention’ માનીએ છીએ, પણ ખરેખર તો સુખ એ ‘Discovery’ છે, એવું મારું માનવું છે. સુખ અસ્તિત્વમાં છે જ, આપણે માત્ર તેને શોધવાનું છે. શોધ એટલે? બે તબક્કામાં વિભાજિત પ્રક્રિયા.

પહેલો તબક્કો છે-નિરીક્ષણ. શેનું નિરીક્ષણ? પોતાના વિચારોનું, વિચારો પાછળના ભાવોનું નિરીક્ષણ. મારા સુખ-દુઃખનું કારણ મારા જ ભાવ-વિચાર છે કે નહીં તેનું નિરીક્ષણ. મારા ભાવો બાહ્ય પરિસ્થિતિઓને કારણે બદલાઈ જાય એ કે નહીં તેનું નિરીક્ષણ. મારા અન્ય માનવો સાથેના સંબંધોનું નિરીક્ષણ અને મારા આ પ્રકૃતિ સાથેના સંબંધનું નિરીક્ષણ.

અને બીજા તબક્કો છે- સંવાદપૂર્વક સર્વેક્ષણનો. મારા આ નિરીક્ષણના તથ્યો મારા સ્નેહીજનો અને અન્ય સૌ કોઈ માટે પણ એટલાં જ સાચા છે કે નહીં તેનું સંવાદપૂર્વક સર્વેક્ષણ.

આમ, આ બંને તબક્કાઓ પરિપૂર્ણ થયા પછી જ માનવજાતિ સુખ શોધી શકશે એમ મારું મક્કમપણે માનવું છે.

તો હવે રાહ કોની એ?! ચાલો, જલદીથી આ શોધ પ્રક્રિયામાં લાગી જઈએ...

તાત્ત્વિક પૃષ્ઠભૂમિ : મધ્યસ્થ દર્શન, સહઅસ્તિત્વવાદ

Vedant Raval

S.Y. - Chemistry

પ્રેરણા માટે શ્રેષ્ઠ લેખ

૧. જ્યારે તમે પ્રેરિત થશો ત્યારે તમે તમારા ડર અને નકારાત્મક વિચારો સામે લડવાનું શીખી શકશો.
૨. પ્રેરણા વ્યવસાયિકોને સકારાત્મક અને ખુશ રહેવામાં મદદ કરે છે જ્યારે લક્ષ્યો હાંસલ કરવા સખત મહેનત કરે છે.
૩. જ્યારે તમે પ્રેરિત થાઓ છો, ત્યારે તમે તમારા જીવનને વ્યવસ્થિત કરવાનું અને પ્રાથમિકતા આપવાનું શીખો છો.
૪. પ્રેરણા વિદ્યાર્થીઓને વર્ગમાં ધ્યાન કેન્દ્રિત કરવા અને સખત મહેનત કરવામાં મદદ કરે છે.
૫. પ્રેરણા ‘જીવનમાં કઈ રીતે જીવવું?’ આ ભાવનાને જાગૃત કરે છે.
૬. પ્રેરણાને મનની સ્થિતિ તરીકે વ્યાખ્યાનિત કરવામાં આવે છે જ્યારે બધું હકારાત્મક લાગે છે અને કાર્યને પૂર્ણ કરવા માટે એક અલગ પ્રકારનો ઉત્સાહ હોય છે.
૭. પ્રેરણા ઘણી રીતે સારી છે અને આપણાં જીવનમાં આત્મવિશ્વાસ ઉમેરે છે.
૮. એકવાર આપણે પ્રેરિત થઈએ, આપણે નવી ઊર્જા અને આશા સાથે શરૂઆત કરીએ છીએ. પ્રેરણા ગ્લુકોઝની જેમ કામ કરે છે અને આપણને ઊર્જા આપે છે.
૯. પ્રેરણા એવી લાગણી છે જે આપણને આનંદ અને નવી આશાથી ભરી દે છે જે આપણને ધ્યેય હાંસલ કરવામાં મદદ કરે છે અને ફરીથી અને ફરીથી પ્રયાસ કરવાની પ્રેરણા આપે છે.
૧૦. પ્રેરણા જીવનમાં મહત્વપૂર્ણ છે કારણ કે તે આપણને વ્યક્તિગત વિકાસ, આપણી લાગણી, આપણા વિચાર અને વર્તન, સુખ અને આત્મવિશ્વાસની ભાવના જેવા મૂલ્યવાન પરિણામો મેળવવામાં મદદ કરે છે.

Trupal S. Patel

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એ માનવ!

ના કરીશ તું ભલાઈ એ માનવ, કેમકે
ભલાઈ પણ ત્યાં જ કરાય જ્યાં તેની ગણના હોય.

ના બોલીશ તું સત્ય એ માનવ, કેમકે
સત્ય પણ ત્યાં જ બોલાય જ્યાં તેની કડવાહટ પીવાની હિંમત હોય.

ના આપીશ તું સલાહ એ માનવ, કેમ કે
સલાહ પણ ત્યાં જ અપાય જ્યાં એને અમલ કરવાની તાકાત હોય.

ના કરીશ તું કોઈનું માર્ગદર્શન એ માનવ, કેમ કે,
આ દુનિયા પણ ત્યાં જ ચાલશે જ્યાં એમની ઈચ્છા હશે.

ના બતાડીશ તું તારી કાબીલીયત પાછળનું કારણ એ માનવ, કેમકે
આ લોકોને ખીલ તારી કાબીલીયતથી જ મતલબ છે, મહેનતની નય.

ના આપ તું દર એક ને પ્રેમ માનવ, કેમ કે
પ્રેમ પણ ત્યાં જ અપાય જ્યાં એને સમજવાની સમજણ હોય.

ના વિચાર તું બધાનું મે વિચાર ખુંદનું એ માનવ, કેમ કે
આ દુનિયા પણ સ્વાર્થી છે, અહિંયા સ્વાર્થી નહિં બનીશ તો તું તારું અસ્તિત્વ જ મિટાવી દઈશ.

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ભારતની વિવિધ કલાઓ

કલાએ મનુષ્યના જીવનમાં એક મહત્વનું સ્થાન ધરાવે છે ભારત દેશમાં ઘણીબધી કલાઓ જોવા મળે છે. ભારત દેશને વિશ્વભરમાં પોતાની વિવિધ સુંદર કલાઓ માટે જાણીતો છે. ભારતની વિવિધ કલાઓ ભારત દેશના સોનેરી ઇતિહાસનું એક સારું પ્રમાણ છે. સમય જતાં ભારત દેશમાં નવા-નવા પ્રકારની કલાઓ વિકસી છે. ભારત દરેક રાજ્ય અલગ-અલગ પ્રકારની કલામાં વિશેષતા ધરાવે છે, અને તેમાં મુખ્યત્વે ચિત્રકલા, લાકડાની કોતરણી કલા, શિલ્પકલા, એમ્બ્રોડરી, આર્ટવર્ક મહત્વનું સ્થાન ધરાવે છે.

ભારતીય કલાનો ઇતિહાસ એ વાતનો સાક્ષી છે કે મહાન કલાકોરો, શિલ્પીઓ પોતાના જીવનના અનુભવો અને જીવનના સત્યને કલાના માધ્યમથી લોક-કલ્યાણ માટે સમગ્ર વિશ્વ સામે પ્રગટ કર્યું છે. આવી જ કલાઓમાં લોક-ચિત્રો એ ખૂબ જૂની કલા છે.

લોક-ચિત્રો મૂળભૂત રીતે ભારતના ગામડાઓ સાથે સંબંધિત છે. તે ગ્રામ્ય ચિત્રકારોની ચિત્રાત્મક અભિવ્યક્તિ જેવી કે રોજિંદા **ગ્રામીણ** જીવન, પક્ષીઓ, પ્રાણીઓ અને કુદરતી દૃશ્યો દર્શાવે છે.

તેમાંથી થોડીક વિખ્યાત લોકચિત્રો વિશે ચર્ચા કરીએ.

વરલી લોકચિત્રો :-

ઉદ્ભવસ્થાન - મહારાષ્ટ્ર, ભારત

ઈ.સ. ૨૫૦૦ પૂર્વે ભારતના પશ્ચિમ ઘાટમાંથી વરલી જાતીઓ દ્વારા ઉદ્ભવેલી આ કલા ભારતની સૌથી જૂની કલા સ્વરૂપોમાંથી એક છે. અસંખ્ય આકારો બનાવવા અને માછીમારી, શિકાર, તહેવારો, નૃત્ય અને ઘણીબધી દૈનિક જીવન પ્રવૃત્તિઓને દર્શાવવા માટે તે મુખ્યત્વે વર્તુળો, ચોરસ અને ત્રિકોણનો ઉપયોગ કરે છે. જે તેને અલગ પાડે છે તે માનવ આકાર છે. એક વર્તુળ અને બે ત્રિકોણ તમામ ચિત્રો લાલ ઓચર અથવા ઘેરા પૃષ્ઠભૂમિ પર કરવામાં આવે છે, જ્યારે આકાર સફેદ રંગના હોય છે.

પટ્ટચિત્ર

ઉદ્ભવસ્થાન :- ઓડિશા, પશ્ચિમ બંગાળ, ભારત

ઓડિશા અને પશ્ચિમ બંગાળમાં કાપડ આધારિત સ્કોલ પેઇન્ટિંગ તીક્ષ્ણ, કોણીય, બોલ્ડ રેખાઓ સાથેના આ પટ્ટચિત્રો મહાકાવ્યોમાં દેવતાઓ અને દેવીઓનું નિરૂપણ કરે છે. આ પટ્ટચિત્ર કલા પુરી અને કોણાર્ક જેવા ધાર્મિક કેન્દ્રોમાં પાંચમી સદીથી ઉદ્ભવી છે. તે જ સમયે શિલ્પની શરૂઆત થઈ હતી. આ કલા સ્વરૂપની વિશિષ્ટતાએ છે કે ચિત્રોમાં દર્શાવવામાં આવેલી ડ્રેસ શૈલીમાં મધ્યકાલીન યુગનો ભારે પ્રભાવ છે.

મધુબની ચિત્રકલા :-

ઉદ્ભવ સ્થાન : બિહાર, ભારત

મધુબની ચિત્રકલા બિહાર અને નેપાળમાં ઉદ્ભવી છે. મધુબની ચિત્રકલા ભારતીય લોકપ્રિય કલાઓમાંની એક કલા છે. મધુબની ચિત્રકલાના મોટાભાગના ચિત્રો અથવા દિવાલ ભીંતચિત્રો દેવતાઓ, વનસ્પતિ અને પ્રાણીસૃષ્ટિને દર્શાવે છે. બિહાર રાજ્યમાં આવેલું જીતવારપુર ગામ મધુબની કલાનું મુખ્ય સ્થાન છે. મધુબની ચિત્રકલામાં મહાસુંદરી દેવી ખૂબ જાણીતા કલાકાર છે.

કલમકારી ચિત્રકલા :-

ઉદ્ભવ સ્થાન : બિહાર, ભારત

કલમકારીનો શાબ્દિક અર્થ છે “પેનનો ઉપયોગ કરીને બનાવેલું ચિત્ર” આંધ્રપ્રદેશના કૃષ્ણા જીલ્લાના માછલી પટ્ટનમમાં તે ખૂબ જ લોકપ્રિય લોકકલા છે. તે એક પ્રકારનું હેન્ડ-પેઇન્ટ અથવા બ્લો પ્રિન્ટેડ કોટન ટેક સ્ટાઇલ છે, જેનું ઉત્પાદન ભારતના ઘણા બધા ભાગમાં આજે કરવામાં આવે છે.

Vadodariya Nikunj M.

T.Y. B.Sc.-

ગામનો ચોતરો

વહેલી સવારે, આકાશમાં ઊગતા સુરજના આછા-ઝાંખા કેસરી-પીળા કૂણા કિરણો પાદરની મધ્યે રહેલા ઘટાદાર વડના કૂપણા પાનને ચાદર ઓઢાળી સોનેરી બનાવતા દૃશ્યને જોવું એ કેટલાક દીર્ઘાયુ વૃદ્ધોને મનમોહક લાગે છે. સૂરજના પથરાતા તેજ સાથે ગામનું જન-જીવન સઘળું ચાલુ થાય છે. પક્ષીઓનો કલરવ, વલોણાનો સ્વર અને ઘરમાં કામ કરતી એકમાત્ર સ્ત્રીના ઝાંઝરનો રણકાર ઘરના વડીલોને શાંતી અને સંતોષ આપે છે. આજ ધીમા સ્વર અને શાંતીની અનુભૂતિ સાથે ગામના ચોતરાની ચોતરે રોનક પથરાઈ છે. મંદિરની આરતીના અવાજ સાથે નાની-મોટી દુકાનો અને શાકભાજીના ઠેલા નિર્જીવ અને શાંત બનેલી ભાગોળને જીવ આપે છે.

શાળા ખુલતા બાળકોનો કલરવ ચોતરાને ગુંજવી મૂકે છે. વડવાઈએ લટકતા, લાલ ટેટાને ફેકતા અને જાળા થડની ચારેય બાજુ પકડા-પકડી રમતા બાળકોના હાસ્યના અવાજથી વડનું જીવન કંઈક અંશે વધતું જણાય છે.

વર્ષોથી આવા મનમોહક દૃશ્યોને માણતા વડીલો એમના વીતતા ક્ષણોને પોતાના મિત્રો સાથે સમય પસાર કરી જીવનના ઊતાર-ચઢાવના કિસ્સાને મરમરે છે.

ગામનો ચોતરો એટલે ગામમાં થતી નવી-જૂની, સારી-ખરાબ વાતોનો થતો સંગમ, વારે-તહેવારે નાત-જાત ભૂલી એક થઈને સાથે રહેતા ગામવાસીઓનો એકમાત્ર સાક્ષી.

ગામનો ચોતરો એટલે એક એવું સ્થળ કે જ્યાં ગામના દરેક રહેવાસીની લાગણીઓ જોડાય છે. ગામના જન્મેલા દરેક વ્યક્તિના જીવનના સંસ્કારોનો એક માત્ર સાક્ષી. જન્મ, બાલ્યાવસ્થા, તરુણાવસ્થા, યુવાવસ્થા, ગૃહસ્થજીવન, પુખ્તાવસ્થા, વૃદ્ધાવસ્થા અને અંતે થતી અંતિમયાત્રાનો સંપૂર્ણ સહભાગી એ ગામની ભાગોળ અને ત્યાંનો ચોતરો હોય છે.

ગામની ભાગોળ અને ત્યાંનો આ ચોતરોએ ગામનું ઘબકતું હૃદય છે જેમ હૃદયના કાર્ણક ક્ષેપકમાં આખા શરીરનું શુદ્ધ-અશુદ્ધ રુધિર મિશ્રિત થયા વિના એકસાથે રહે છે તેમ જ નાત-જાતના ભેદભાવ તથા સારા-નરસાના સ્વભાવ સાથે આખું ગામ વાર-તહેવારની ઊજવણી માટે આજ હૃદય નામક ચોતરે એક થઈને ઊજવણી કરે છે.

ગામનો ચહલ-પહલ અને હરીયાળીથી ભરેલો ચોતરો એટલે ગામના જન-જીવનની ખુશાલીનું સીધું દેખાતું સત્ય.

Varsha Makwana

T.Y. Microbiology

અમારી કોલેજ લાઈફ

જ્યારે ધોરણ-૧૨ પાસ કર્યો ત્યારે ઉત્સાહ હતો હું કોલેજ જઈશ. જલસા કરીશ અને જિંદગીનો સારો એવો સમય પસાર કરીશ. ઉત્સાહી એટલા માટે હતા કારણ કે અમે ઘણા બધા પાસેથી સાંભળ્યું હતું. “કોલેજમાં તો બસ જલસા હોય બેગમાં ખાલી એક ચોપડો લઈને જવાનું મન થાય તો ભણવાનું ન હોય તો બહાર બેસીને મોજ, મજા અને મસ્તી જ કરવાની મિત્રો સાથે બહાર ફરવા જવાનું મુવીસ જોવા અને છોકરીઓ જોડે ફર્ટ કરવાનું, બ્રેકઅપ અને પેચપ આનું નામ જ તો “કોલેજ લાઈફ”

કદાચ આવું તમે વિચારતા હશો કે બસ કોલેજમાં તો જલસા જ હોય જિંદગી સાચી મજા તો કોલેજમાં જ હોય કારણ કે આપણેને પહેલાથી શીખવવામાં આવ્યું છે કે ૧૦ પાસ કરી લે અગિયારમા તો જલસા જ છે બસ ૧૨ પાસ કરી લે આખી કોલેજ લાઈફમાં જલસા જ કરવાના છે.

જોકે મેં પણ આવું જ કંઈક વિચાર્યું હતું.

કોલેજ કોને કહેવાય? કોલેજમાં શું થાય? એની ખબર ત્યારે જ પડી ત્યારે ૧૨ સાયન્સની પરીક્ષા પૂર્ણ કરી કોલેજના સપના જોવાનું ચાલુ કર્યું સપના જોતા જોતા ખબર નહીં ક્યારે રીઝલ્ટનો દિવસ આવ્યો સામાન્ય એવા અંક સાથે પાસ થયો અને કોલેજમાં એડમિશનની પ્રક્રિયા શરૂ થઈ ખાતરી તો હતી કે એડમિશન થઈ જ જશે અને થયું પણ. પ્રથમ લિસ્ટમાં જ નામ આવ્યું અને એડમિશન મનગમતી એવી કોલેજ V. P. SCIENCE મા મળ્યું.

મનમાં ઘણા બધા વિચારો આવતા કેવા લોકો હશે કોલેજમાં? ભણવાનું હસે કે નહીં? આવા ઘણા બધા વિચારો મનમાં ઘર કરી ગયા હતા.

અરે હા એ કહેવાનું રહી ગયું કોલેજનું પ્રથમ સેમિસ્ટર આખું ઓનલાઈન વિતાવ્યું કોલેજનું ઈન્ટ્રોડક્શન અને થોડા મિત્રો સાથે ઓનલાઈન જ મિત્રતા થઈ. આ બધાનું કારણ સૌનો દુશ્મન એવો “કોરોના”.

છેવટે એ દિવસ આવી ગયો જ્યારે કોલેજમાં અમારો પ્રથમ દિવસ હતો અને આ પ્રથમ દિવસ એટલે એક્ઝામનો દિવસ એક્ઝામનું ટેશન સાથે સાથે નવા મિત્રોને જોયા વગર મળવાની ઉત્સુકતાએ પણ માર્ક અને સોશિયલ ડિસ્ટન્સ સાથે Exam Hall માં જતા પહેલા અમારી સામે “હથિયાર બંધ” કોલેજનો સ્ટાફ કોરોના ને હરાવવા ઓક્સિજન મીટર અને ટેમ્પરેચર મીટર લઈ કોરોના અને તેની GUIDE LINE પાલન કરવવા તૈયાર બેઠો હતા.

એક્ઝામ પછીનો પહેલો દિવસ કંઈ ખાસ ન હતો અમારા માટે અજાણ્યા લોકો જોડે વાતચીત થઈ પહેલો દિવસ એટલે લેક્ચર તો હતો નહીં કલાકો નીકળી ગઈ ને એક પછી એક સર, મેડમ એમનો પરિચય આપતા અને કોલેજ વિશે જરૂરી માહિતી પૂરી પાડી. આમને આમ એક અઠવાડિયું પસાર થઈ ગયું થોડા મિત્રો બની ગયા હતા એટલે લેક્ચરમાં ટાઈમ નીકળી જતો.

હવે અમે, હું માંથી અમે બની ગયા અમારા છ-સાત ખાસ મિત્રો બની ગયા પરંતુ પ્રથમ વર્ષ બાદ બધાએ જુદા-જુદા વિષય પસંદ કર્યા અને આખરે બીજા વર્ષમાં “Backbenchers” ની ટીમ બની અને ઘણા બધા ખાસ મિત્ર બન્યા છે કોલેજમાં ઘણી બધી પ્રવૃત્તિઓ જેવી કે Science Carnival, Allocation Competition, Talent hunt અને આવી ઘણી બધી પ્રવૃત્તિઓ ચાલી રહી છે અને એમાં ભાગ લીધો છે.

બસ આમને આમ હજુ ચાલી રહી છે કોલેજ લીઈફ હા પણ આ લાઈફમાં સ્કૂલ કરતાં થોડું વધારે ફીડમ છે.

બસ આવી ચાલી રહી છે અમારી કોલેજ લાઈફ...

Sachin Machhi

S.Y. Microbiology

લોકડાઉનનાં મારા અનુભવો

હું ક્ષણોનાં મહેલમાં જાઉં અને કોઈ બહારથી દરવાજો બંધ કરી દે તો? પાછલા વર્ષોની વિકરાળ ભયાનક સ્મૃતિનાં અકબંધ જથ્થામાંથી એક પળ પણ ચોરી લાવવા હું તૈયાર નથી. પાછલા વર્ષની દરેક ક્ષણને ‘ઈશ્વરચેષ્ટા બલિયાસિ’ સમજીને પાંગળા પામર માનવીની જેમ બેઠેલ છે. લોકડાઉનમાં માનવી નું જીવન પળવારમાં ઠપ્પ થઈ ગયું. મારાં એ જ રોકાયેલા જીવનમાં મેં સર્વ પ્રથમ નવરાશ ની હાશ અનુભવી અને પછી નકામાં વિચારોની હાજમાળ. ઘરનાં બગીચાનાં લીલાં ઘાસ પર આથમતા સૂર્યનાં મનોહર પ્રકાશને માણતા મારા વિખરાયેલા વાળમાં પ્રેમથી હાથ ફર્યો. ઘડપણથી ઢીલી અને લદાયેલી ચામડીની વચ્ચે વ્હાલ નીતરતી ભીની પણ સશક્ત આંખો પર પહેરેલા જાડા કાચનાં ચશ્મા સંભાળતા બા આવીને કંઈક ફૂછે તે પહેલાં મારું મન તેમનાં ભવ્ય ભૂતકાળ અને મારા આજનાં વર્તમાનની તુલના કરવામાં અટવાઈ ગયું. સ્વભાવે નિખાલસ દિકરીને આમ મૂંઝવણમાં જોઈ બા એ વધુ પૂછવાનું ટાળ્યું. અનુભવહીન પણ અનુભવ સભર એવું મારું લોકડાઉન કહી શકાય. કાંઈ કામ નહીં પણ તો ‘ય ચહેરા પર થકાન જણાય. રોજ સગા સંબંધી, સુસ્વજનો અને મિત્રોનાં હાલચાલ સહિત વધતાં જતાં કોરોના કેસની વ્યર્થ ચર્ચા થાય. પરિવાર સાથે સમય પસાર થયો જાણે વર્ષોથી સાથે હતાં તેમ છતાંય કેમ અતડાં રહેતાં હતાં. મારાં સપાનાંતરફની મારી ઉડાનને પાંખો આવી ન આવી ત્યાં આકાશ જ સમેટાઈ ગયું. બધાં શોખ પૂરાં કરવાનો સમય મળવા લાગ્યો હતો. પરંતુ ખાલીપો હતો તો બસ ફાની દુનિયાનો પોતાનાં અંગત અનુભવ વિશે જો જણાવું તો પરિવારનો સઘળો પ્રેમ અને વાત્સલ્ય જે વ્યક્તિમાં વસતું તેવા મારાં ફોઈ અકસ્માતમાં સાવ નાની ઉંમરે દેવ થઈ ગયાં તેમને છેલ્લી સાડી ઓઢાડવા માટે પણ પોલિસને આજીજી કરવી તેનાથી વધારે કઠણ પ્રસંગ કોઈ ‘માં’ માટે નહિં હોય. વધતાં વજન અને સાથે વધતી આળસથી ઘણું પરેશાન થયા બાદ પણ સવારે પથારી ત્યજી દીધા બાદ ‘શું કરું?’ આ પ્રશ્ન દરેક પડોશીનાં ઘરમાંથી આવવા લાગ્યો હતો. પોતાને નીડર અને બહાદુર કહેવા વાળા ઘણાં નજીકનાં સજ્જનોને સામાન્ય શરદીથી ડરીને RTPCT કરાવતાં જોં ઓછાં નથી ભાળ્યાં. લોકડાઉનમાં ‘લોકડાઉન ખૂલ્યાં પછી શું કરીશ’ બસ તેની જ ભવ્ય ખયાલી ઈમારત હું ચણતી રહી હતી. લોકડાઉનમાં જોં સૌથી વધારે મા-બાપની ધીરજ અનુભવી છે. આટલાં કપરા સમયમાં વૃદ્ધ પણ પ્રવૃત્તિશીલ મા-બાપને અને તેમનાં કંટાળા ભર્યા પણ વ્યાજબી ગુસ્સાને શાંતિથી ઠાર્યા. ઘરનાં પાછળનાં વરંડામાં ઉભા ઉભા પડોશની ગૃહિણીઓ સાથે તેમની આર્થિક સંકડામણ અને ટોળટપ્પાં સુખેથી સાંભળતી અને ‘શાકમાં ચમચો ફેરવજે’ તેવી વચ્ચે-વચ્ચે બૂમ પાડતી મમ્મીને જોઈ અને અનુભવી છે. કદાચ પહેલી જ વાર આટલાં પાસેથી મેં મારા માતા-પિતા તથા પરિવારજનોને અવલોક્યાં હતાં. એક વિચિત્ર ડર સાથે પપ્પાને થેલી ભરીને શાક-પાંદરું લાવતાં નિહાળ્યાં હતાં. કાળમુખા લોકડાઉન દરમિયાન જાણે એમ લાગતું કે જોં શ્વાસને થોડાં સાચવી રાખ્યા છે કોઈક આણધાર્યા પ્રસંગે જવાનું થાય તો! માસ પ્રમોશન અને ઓનલાઈન અભ્યાસની આદત સાથે હવે જીવતાં અમે અમારાં બીબા ઢાળી લીધાં હતાં.

૨૦૨૦ નો સૌથી વધારે નેગેટિવ શબ્દ એટલે “પોઝિટિવ”. અને આ બધાંની વચ્ચે પોતાની ફરજ બજાવતાં દરેક કોરોના વોરિયર્સને મનોમન સલામ પણ કરી લેવાતી. માનવી ઈશ્વરમાં શ્રદ્ધા રાખવાં લાગ્યો. અને પ્રાર્થના જીવનમાં અલાયદું સ્થાન પામી શકે શી ખબર માત્ર તે જ આવશ્યક ઈશ્વરે આ સઘળી રમત યોજી હોય!

આ આખા લોકડાઉનમાં મેં અનુભવેલ વ્યથા, આનંદ અને વણજોઈતી વિચારધારાને એકાદપંક્તિમાં જો ટાંકું તો ...

આકાશનું વધતું જતું એકાંત જોઈને
હાંફી ગયેલા શ્વાસના પગને તપાસીએ
સિક્કો હવામાં થાય છે ગાયબ ઉછાળતા
ઉડી ગયાં છે જીવને શબને તપાસીએ
વાહન બનેલા દેહની કેવી દશા થશે?
ભડભડ બળેલા કૃષ્ણનાં રથને તપાસીએ
ટોળે વળેલા ગીધને ‘ઈર્શાદ’ કોઈ કહો,
આવી રહેલી આખરી પળને તપાસીએ.

મૃત્યુને સાવ પાસે જોતાં રચાતી ખોફનાક લાગણીનાં દરમાંથી હવે જીવનને બહારની સ્વચ્છ હવામાં પરોવેલો છે.

Stuti Mahida
T.Y. Phy.

માતૃ પિતૃ ઋણ

અસિત-ગિરિ-સમં સ્યાત્ કજ્જલં સિન્ધુપાત્રે
સુર-તરુવર-શાખા લેખની પત્રમુર્વી।।
લિખતિ યદિ ગૃહિત્વા શારદા સર્વકાલં
તદપિ તવ ગુણાનામીશ પારં ન યાતિ।।

મે સમુદ્રની શ્યાહી બનાવી, બધાંજ વૃક્ષોની ડાળીઓની લેખની બનાવી, સંપૂર્ણ પૃથ્વીને પત્ર બનાવી સ્વયં માતા શારદા પણ સંપૂર્ણ કાળ સુધી લખતાં રહે તો પણ હે પ્રભુ! આપના ગુણોનો પાર આવે એમ નથી. આવા અમાપ અને અગણિત ગુણોના ભંડાર ઈશ્વરને કદી તમે જોયા છે ખરાં? હા! એ ઈશ્વરને મેં સાવ સગી આંખે પૃથ્વી પર જોયા છે. મારો ઈશારો ઈશ્વરના જેવી જ અથવા એથી પણ વધુ સક્ષમ શક્તિ તરફ છે. હું જ નહિં એ દરેક સંતાન કે જેમણે માતા-પિતાના આશીર્વાદ મેળવ્યા છે એ દરેક વ્યક્તિ ચોક્કસ રીતે કહી શકે છે કે તામ્યામ્ ગુણાનામ્ પારમ્ ન યાતિ એટલે કે એમનાં ગુણોનો પાર આવે એમ નથી જ!

જીવનનો દરેક દિન દિનનો હર કલાક
કલાકની હર ક્ષણ જડેલ શિશુ સ્મિત સહ
રીતે જડાયેલ આ જીવન ‘અર્થાત માતાપિતા’ (મંદાકાંતા ૧૭)
પ્રયત્ન જો થાય એમના ગુણો વર્ણવવા
પ્રયત્ન જો થાય એમનો સ્નેહ વર્ણવવા
ત્યારે પ્રગટ્યો હશે અલંકાર ‘અનન્વય’
કે ‘મા તે મા’ અહો! ભાષા થકી પ્રેમની શક્તિ... (માલિની ૧૫)
શબ્દકોષમાં દીસે નહિં, અર્થ એ માતા-પિતા
એ માટે જીવન તાણો, કોષ ઉકાળવો રહ્યો (અનુષ્ટુપ ૧૬)
ના કોઈ ભાષા; સુંદરતા, વીરતા, મહિમા દર્શાવવા
કોમળ, વહાલભર્યો અનિલ, બાળનો ઉત્સાહ પ્રેરતો!
એ જ ઉત્સાહ થકી દીસે સંતાન ગાતાં મીઠાં ગીતડાં... (શાર્દુલવિકીરિત ૧૯)
પિતા ધર્મ તથા સ્વર્ગ તેઓ શ્રેષ્ઠ તપ!
તઓ પ્રસન્ન; જીવન એ ક્ષણે સફળ... (વસંત તિલકા ૧૪)
માતા સર્વેતીર્થમયી, પિતા સર્વે દેવો સ્વરૂપ
પરિક્રમા માતા-પિતાની, સયં એ વસુંધરાની!
અહો કેવું દિવ્ય જોડું, પ્રભુએ નિરમ્યું સોગાતે. (મંદાકાંતા ૧૭)
દુર્લભે એવા પાંચ જ-કારે જનની જનક છે બંને
માતાના વાળ, આકાશના તારા વર્ષાના એ ટીપાં પણ
વાત્સલ્ય નિરપેક્ષએ ગણી બતાવે તોયેના અંકાય! (શાર્દુલવિકીરિત ૧૯)
યન્માતાપિતરૌ વૃતં તનયે કુરુતઃ સદા।
ન સુપ્રતિકારં તન્નુ માત્રા પિતા ચ યત્કૃતમ્।।
માતા પિતા દ્વારા તેમનાં બાળકો માટે સતત કરેલાં કર્મ...
તે કર્મના ઋણો ચૂકવી શકાતા નથી!!!

Raj M. Patel
00. Chemistry.

વિરહની વેદના

નદીના સતત વહેતા પાણીની જેમ તારી વાતોને આજે,
આ દિલ બીજાની વાતોમાં પણ તારી વાતો શોધી રહ્યું છે.

જેમ આકાશમાં પણ તારાઓ અગણનીય હોય છે એમ આજે,
આ દિલ પણ તારી સાથેની અગણનીય યાદોને વાગોળ્યી રહ્યું છે.

જેવી રીતે સુરજ આથમતાની સાથે એની રોશની પણ આથમી જાય છે એમ,
તારા વિરહ પછી આ ચહેરા પરનું સ્મિત પણ ક્યાંક આથમી ગયું છે.

સમુદ્રના ઊંડાણમાં છુપાયેલા મોતીની જેમ લાગે છે આજે,
આ દિલ પણ તારી અંદર છુપાયેલા મારા પ્રેમને ફરી બહાર કાઢવા મચી રહ્યું છે.

શું કરવું સંબંધ પણ કંઈક એવો બંધાયો છે પ્રીતમ,
જ્યારે પ્રિત રાધા-કાન જેવી હોય તો વેદના પણ રામ-સીતા જેવી જ હોય ને.

Charmee B. Satasiya
T.Y. Microbiology.

શોધ!

તુ પ્રકાશ નહિ, સવાર શોધ!
દરેક નવા દિવસનો એક નવો ઉદ્ભાસ શોધ...

તુ પ્રેમ નહિ, વિશ્વાસ શોધ!
દરેકના હૃદયનો એક સાર શોધ...

તુ જળ નહિ, તરસ શોધ!
તારી ખુશીનું એક સરસ બહાનું શોધ...

તુ જીવંત નહિ, જીવ શોધ!
તેનાં પ્રેમ ભરેલા સ્વભાવનું રહસ્ય શોધ...

તુ મિત્ર નહિ, મિત્રતા શોધ!
તેમા રહેલા એક નિર્દોષ હાસ્યને શોધ...

તુ મંઝીલ નહિ, સફર શોધ!
તેનાં પર ચાલવાની એક નવી રીત શોધ...

તુ ચાલ, તુ ચાલ તારા જીવનમાં!
તારા જીવનનું એક નવું પાનું શોધ...

Mirali S. Kariya
Chemistry

વિખરાયેલુ પાણ મનમોહક

અડધી રાતે લાગણીથી છલકતી મારી આખો
હજુયે રાહ જૂએ છે તારી
એ જ પેલી સાંજની
ને ના થતી આખી રાતની

એ હુંફાળા સાથની
મીઠી તારી વાતની
વેલી થતી સવારની
ને મોડી પડતી રાતની

રડતી આખે સ્મિત લાવે
એવી તારી વાતની
હસતા મોઢે રડાવી નાખે
એવા તારા શબ્દોની

નથી રહ્યો તુ હવે
ના હું પેલા જેવી છું
પણ,
વેલી સવારના સપનામાં
હજુયે તને શોધું છું.

કશુંયે નથી હવે બાકી
તોય અધુરી ઘણી વાત છે
પુરી થયેલી વાતમાં
હજુયે બાકી છે
અડધી રાતે લાગણીથી
છલકતી મારી આખોમાં
હજુયે તારી રાહ છે.

Varsha Makwana
T.Y. Microbiology

હા, હું કવિતામાં લખતા શીખી...

જિંદગીની હસીન પળો'ને,
ક્યારેક વળી આ ચડતી પડતી,
હા, હું કવિતામાં લખતા શીખી...

ઈશ્વરની આ અસીમ દુનિયા,
'ને મનુષ્યએ વિખરેલો આ દુનિયા,
હા, હું કવિતામાં લખતા શીખી...

પ્રકૃતિ પાસેની શીખ,
'ને જિંદગીએ ભણાવેલા પાઠ,
હા, હું કવિતામાં લખતા શીખી...

બાળપણની એ મોજડ,
'ને વધતી આ ઉંમરની હકીકતો,
હા, હું કવિતામાં લખતા શીખી...

માં-બાપનો એ પ્રેમ
'ને યારોની એ યારી,
હા, હું કવિતામાં લખતા શીખી...

જિંદગીની આ ખરી માયા જાળ,
'ને અનુભવો ક્યારા,
હા, હું કવિતામાં લખતા શીખી...

Mansi Thakkar
T.Y. Chemistry

સાચી સ્ત્રી સ્વતંત્રતા

કુંવારી, પરિણીત કે વિધવા સ્ત્રી માટેના જુદા-જુદા શાણગાર
અને નીનિનિયમોના રિવાજોનો સંપૂર્ણ અંત...

એ જ સાચી સ્ત્રી સ્વતંત્રતા

સ્ત્રીઓ માટે ‘ગૃહલક્ષ્મી’, ‘ઘરની આબરૂ’, ‘ત્યાગની મુરત’
જેવા વિશેષણો વાપરી તેને અદૃશ્ય સાંકળમાં જકડી રાખવાની પ્રથાનો અંત...

એ જ સાચી સ્ત્રી સ્વતંત્રતા

પત્નીનું કહ્યું માનતા પતિને “બૈરીઘેલો” કહેવાની માનસિકતાની નાબૂદી...

એ જ સાચી સ્ત્રી સ્વતંત્રતા

સ્ત્રીઓની પુરુષો સાથેની સરખામણી સંદેહાસ્પદ બંધ...

એ જ સાચી સ્ત્રી સ્વતંત્રતા

ખરાબ વાહન ચલાવતી વ્યક્તિ જોઈને તુકડો મારવાને કે
“કોઈ લેડી જ હશે” એવી માનસિકતાનો અંત...

એ જ સાચી સ્ત્રી સ્વતંત્રતા

“બૈરાની બુદ્ધિ પાનીએ” એવા મુહાવરા સંદેહાસ્પદ બંધ...

એ જ સાચી સ્ત્રી સ્વતંત્રતા

કોઈ રડતા છોકરાને કહેવાતું વાક્ય “છોકરીની જેમ શું રહે છે”
એવી માનસિકતાનો અંત...

એ જ સાચી સ્ત્રી સ્વતંત્રતા

મનગમતા રંગોથી રમી લઉં છું.
મારી જ ધૂનમાં મસ્ત બની જીવી લઉં છું,
એક ડગ સાચી સ્ત્રી સ્વતંત્રતા તરફ માંડતી જાઉં છું.

Dhara V. BHarvad
T.Y. B.Sc. Chemistry

“મિત્રતા”

જે પહેલા દિવસે અજાણ હતી,
એ અત્યારે મારી થઈ ગઈ.

જે પહેલા દિવસે વાત કરવામાં અટકતી હતી,
એ અત્યારે બધું કહેતી થઈ ગઈ.

જે પહેલા દિવસે એકલી હતી,
એ આજે બધાની સાથે રહેતા થઈ ગઈ.

જે પહેલા દિવસે ભૂલી જતી હતી,
એ આજે એને યાદ કરતી થઈ ગઈ.

જે પહેલા દિવસે મિત્ર હતી,
એ આજે ખાસ સખી થઈ ગઈ.

જે પહેલા દિવસે અજાણ હતી,
એ આજે દિલમાં વસતી થઈ ગઈ.

Vishva G. Shah
T.Y. Mathematics

ચાલ ને થોડું જીવી વઈએ...

લાગણીઓનું છે વહેતું ઝરણું,
ચાલને થોડું વહી લઈએ.

યાદ આવે છે. એ મસ્તિના પલો
ચાલને થોડી મસ્તિ જ કરી લઈએ.

બહુ થયો આ રિસાવા-મનાવાનો ખેલ
ચાલને થોડું રડિને બહુ જ બધુ હસી લઈએ.

થોડી કોશિસતું કર અને થોડી હું કરું.
ચાલને એ સાચકલ ને ફરી રસ્તા પર લાવી દઈએ.

સતાવે છે આ ચુપ્પિઓ પલ પલ,
ચાલને ફરી દિલ ખોલીને બહુ કહી દઈએ.

યાર તારી સાથે જ દે જીવવાનો આનંદ,
ચાલને થોડું જીવી લઈએ...

Smit S. Vanja
S.Y. Chemistry

ફુલ અને કાંટા

કાંટાઓ ક્યાં કોઈની ઉપર ઘા કરે છે,
માનવો જ માનવતા ઉપર ઘા કરે છે.

આપે છે લોકો નાહક સજા કાંટાઓને,
ફુલો ક્યાં કાંટાઓની ફરિયાદ કરે છે.

હોય છે હંમેશા ફુલોની સાથે કાંટાઓ,
લોકો જ ફુલને કાંટાઓથી દુર કરે છે.

અજાણતા ફુટી નીકળે ટશલ લોહીની,
માનવો જ કાંટાઓને બદનામ કરે છે.

ફુલને ઉપયોગી છે, કાંટાઓ ઘણાં,
માનવો માત્ર ફુલ પસંદ કરે છે.

છે એકમેક સુખ-દુઃખના સાથી
સ્વાર્થ માટે માનવો અલગ કરે છે.

પૂછી જુઓ ફુલોને કાંટાઓનું મહત્વ
કહી ઊઠશે, એજ મારુ જતન કરે છે.

અજાણતાં કમને ખરી પડે છે, ફુલો
નહી તો કાંટાઓને ઘણો પ્રેમ કરે છે...

Jaydev R. Rathod
F.Y. B.Sc. (C-Div.)

Thank You વલ્લભ વિદ્યાનગર

હા, એજ વલ્લભ વિદ્યાનગર જેનું નામ લખવામાં આગસ આવે છે એટલા માટે એનું નામ વલ્લભ વિદ્યાનગરમાંથી વિ.વિ.નગર કરી દીધું છે.

આ Thank you શબ્દ તો બહુ નાનો છે કેમકે વિદ્યાનગર એ આપણને આપણા જીવનની મોટી મોટી ભેટ આપી છે.

હું છું મૂડ આણંદની પણ રહેવાસી ખંભાતની, તો ટ્રેનના સફરમાં નાનપણથી આ શહેરને જોયું છે, પણ એ માત્ર રેલ્વે સ્ટેશન પૂરતું સીમિત રહેતું, ઘણીવાર તો આ શહેર મારા ગુસ્સાનું કારણ પણ બન્યું છે, ટ્રેનની માંડ વધતી ઝડપને ધીમી કરાવા માટે. એ સમયે જેટલું આ શહેરને અવગણ્યું હતું આજે એટલું જે આ શહેર પોતાનું થઈ ગયું છે.

વિદ્યાનગર એટલે એવું શહેર જેણે દૂરદૂરના સ્થળેથી આવેલાં સાવ અજાણ્યા લોકોને પોતાના કેમના કરવા એ શીખવ્યું. સ્કૂલ પુરી કરીને પેલ્લી વાર ઘરથી દૂર આવીને વસતા હજારો બાળકોને પોતાના બનાવવાની કળા છે આ શહેર પાસે.

જીવનના દરેક તબક્કા માટે શીખ આપી છે, લોકોની ઓળખ કરાવી છે, સાચા અર્થમાં જવાબદારીનું ભાન કરાવ્યું છે અને આખું જીવન સાથ આપે એવા મિત્રોની મિત્રતા કરાવી છે. આખું જીવન જેને પૈસાની ખોટ ના પડી હોય એને હોસ્ટેલમાં આવ્યા પછી પૈસા કિંમત સમજાવી છે. સફળતા અને નિષ્ફળતા બંનેનો રસ્તો બતાવ્યો છે.

ગોલ્ડન અને લક્ષ્મીની ચા, શાસ્ત્રી મેદાન, યોગીની પાણીપુરી, tea post, શ્રીજીના પફ, અંજલિના મગપુલાવ અને મહાદેવના આલુ પરોઠા અને ના જાણે કેટેકેટલા cafe કેટેકેટલા patch up આ બધાની એક અલગ જગ્યા છે. અહીંના લોકોમાં જેને કોઈ ભૂલાવી નહીં શકે. વિદ્યાનગર ખાલી વિદ્યાનગર નથી એ હજારો લોકોના જીવનની વાર્તાનો અવગણીના શકાય એવો ભાગ છે.

Varsha Makwana

T.Y. Microbiology

ખ્વાબ

હું જાગુ રોજ એક આશમાં
સબળ સારાંશની ખોજમાં
કર્મોં કેરા કાળમાં,
અટવાઉ ક્યાંક સંબંધના જાળમાં
ખોબા ભેર વિશ્વાસમાં,
ફેરવું માવઠાને વરસામાં
સાંજ સમમી પામુ ખુદને,
એક નવા અજવાસમાં
ઈચ્છાઓના તારા ટમટમે મુજ આકાશમાં,
સપનાઓ સજાગ થઈ રમે મારી આંખમાં,
વળી, જવાબદારીઓનું પરોઢીયું ઢંઢોળે મને
ખ્વાબોની ઊંઘમાં...!

Janki Panchal

T.Y. B.Sc. Microbiology

લોકડાઉનની ચર્ચા

કેમ છો? મજામાં જ હશો અને દરરોજની અસમજસમાં વ્યસ્ત જ હશો! આશા રાખું છું કે સ્વાસ્થ્ય ખૂબ જ સરસ હશે. આજની આ વાતો આપણે થોડા સમય પહેલા નહોતા કરી શકતા કારણકે આપણે કોરોના મહામારીમાં ફસાયેલા હતાં. આજનો મારો વિષય પણ લોકડાઉનના મારા અનુભવો જ છે.

મિત્રો, લોકડાઉનની શરૂઆતમાં બધાને ગમ્યું જ હશે કેમ કે પરિવારનાં બધાં જ સદસ્યોને ભેગા રેવા મળતું. ઘરનાં દરેક સભ્યોને એકબીજા માટે પૂરતો સમય આપી શક્યા. બસ તો, આવી જ રીતે મને પણ લોકડાઉનનો સમય ઘણું બધું શીખવાડી ગયો. મારા ઘરમાં અમે બધા જ સાથે મળીને ઈન્ડોર ગેમ્સની મજા માણતા. કેરમ, લુડો, સાપસીડી, નવો વ્યાપાર વગેરે... મેં મારા આ સમયને વ્યર્થ ન જવા દેતા મેં તેનો સફળ ઉપયોગ કર્યો. મેં મોબાઇલમાં Youtube ના માધ્યમથી ઘણી અવનવી વસ્તુ શીખી.

સૌપ્રથમ, મેં એક પેપર કાફ્ટનો વિડીયો જોયો અને ઘરે રહેલા પેપરનો ઉપયોગ કરીને એક સ્કેપબુક બનાવી. જેનો વિડીયો બનાવી મેં તેને વ્હોટ્સપ સ્ટેટસમાં રાખ્યો. આ વિડીયો જોઈને મને ઘા સારા પ્રતિભાવ મળ્યા અને મને ઘણાં ઓર્ડર પણ મળ્યા. પછી જ્યારે લોકડાઉનમાં ઘરનો સામાન લેવા માટે થોડાં સમય માટે દુકાનો ખુલતી તે સમયે હું મારા કાફ્ટનું મટીરિયલ પમ લઈ આવતી અને આ રીતે

મારી પાસે ઊંનના દોરા પણ હતાં. મેં તેમાંથી થાળી રૂમાલ બનાવવાનું વિચાર્યું પરંતુ તે મને આવડતું નહોતું મેં Youtube પર વિડીયો જોઈને તે રૂમાલ બનાવવાનો પ્રયત્ન કર્યો અને જોતાં જોતાં મેં અલગ-અલગ ડિઝાઇન અને કલરનાં ચાર રૂમાલ બનાવ્યા. તેમજ ઊંનના દોરાનો ઉપયોગ કરીને કિંબ્લ ભગવાનનાં વાઘા પણ બનાવ્યા હતાં. આ જોઈને મને એક ઊંનની ટોપી બનાવવાનો પણ ઓર્ડર મળ્યો અને મેં ચાર વર્ષના નાના છોકરાની એક સુંદર ટોપી ઊંનના દોરામાંથી ગૂંથીને બનાવી.

થોડા સમય બાદ ગણેશ ચતુર્થીનો ઉત્સવ નજીક આવ્યો. બજાર આખું લોકડાઉનના કારણે બંધ હતું. તો આ સમયે બે કુદરતી કાળી માટીનો ઉપયોગ કરીને ઈકો-ફ્રેન્ડલી ગણપતિની મૂર્તિ બનાવી. જેનાં દ્વારા મને આઠ ગણપતિની મૂર્તિનાં ઓર્ડર મળ્યા. આ રીતે હું દિવસેને દિવસે વ્યસ્ત થતી ગઈ. અંતે પરિણામ સ્વરૂપે હું મારા પગે આર્થિક રીતે ઊભી થઈ.

મારા આ અનુભવોનો દિવ્યભાસ્કર સામયિકમાં આર્ટિકલ પણ છાપવામાં આવ્યો. આ રીતે હું મારું અને મારા પરિવારનું નામ રોશન કરી શકી. ધીમે ધીમે મેં મારા આ આર્ટવર્કને અન્ય સોશિયલ સાઈટ ઉપર પણ રાખ્યા અને મને ખૂબ સારો એવો પ્રતિભાવ પણ મળ્યો. મેં ઈન્સ્ટાગ્રામ ઉપર @np_artscrafts નામનું અકાઉન્ટ બનાવ્યું તેમજ Youtube ઉપર NP Arts & Crafts નામની ચેનલ પણ બનાવી. ધીમે ધીમે હું મારી આર્ટ કળામાં ખૂબ આગળ વધી તેમજ આત્મનિર્ભરતાનું સૂત્ર પણ સાર્થક કર્યું.

આ ઉપરાંત, મારી મહેંદી કળાનો પણ મને ખૂબ જ સારો પ્રતિભાવ મળ્યો.

હા, આ એ જ સમય છે જેમાં અન્ય લોકો ઘરે કંટાળી ગયાં તેમજ અન્ય પ્રવૃત્તિ જેવી કે ફોનમાં ગેમ રમીને પોતાનો સમય બગાડતા હતાં અને એ જ સમયનો ઉપયોગ મેં મારા ભવિષ્ય માટે ઉપયોગ કર્યો.

આવા લોકડાઉનના કપરાં સમયમાં સમાજ માટે કાર્ય કરતાં એવા NSS ડિપાર્ટમેન્ટનું V.P. & R.P.T.P. Science College દ્વારા માસ્ક મેકિંગ તથા માસ્ક ડિસ્ટ્રીબ્યુશનનો એક કાર્યક્રમ યોજાયો. જેમાં ઘરે રહેલાં કાપડનો ઉપયોગ કરીને જાતે માસ્ક બનાવી આસપાસનાં વિસ્તારમાં રહેલા લોકોને આપવા. આ પ્રવૃત્તિના ભાગરૂપે મેં ઘરે રહેલા કાપડમાંથી ૧૧ માસ્ક બનાવી જરૂરિયાતમંદને આપીને મેં મારી NSS વોલેન્ટિયરની ફરજ પણ નીભાવી.

આ ઉપરાંત, મેં રસોડાને પણ મહત્વ આપ્યું મને પહેલાંથી રસોઈનો ખૂબ શોખ છે. હું અવનવી વાનગીઓ બનાવતી રહું છું. મેં લોકડાઉન સમયમાં કેક બનાવતા શીખી તેમજ Youtube નાં માધ્યમથી બિસ્કિટ, બિસ્કિટની કુલ્ફી, દાલબાટી તેમજ ઘણી અવનવી વાનગી બનાવતાં પણ શીખી.

તો આ રીતે લોકડાઉનનો સમય મારા મેટ ખરેખર ખૂબ જ ફળદાયી રહ્યો.

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नक्सलवाद का इतिहास

नक्सल कहिए, नक्सलबाड़ी कहिए या फिर नक्सलवाद और अंग्रेजी में Naxalism भी, ये सारे शब्द सुनकर जेहन में आता है तो गोली बारुद से थरथराते जंगल, हथियार लिए खड़े कुछ लोग।

पश्चिम बंगाल में एक छोटा सा गाँव है नक्सलबाड़ी। साल १९६५ तारीख २५ मई बंगाल में कम्युनिस्ट पार्टी का राज था और किसान आंदोलन अपने चरम पर था। जमींदारों के खिलाफ किसानों ने नाराजगी थी। ऐसे में अपनी जमीन के हक में और जमीनदारों के शोषण के खिलाफ किसानों ने एक विद्रोह शुरू कर दिया। लेकिन ये खाली उठाकर नारे लगानेवाला विद्रोह नहीं था। इस हथियारबंद आंदोलन की कमान चारु मजमुदार, कानुं सान्याक और साढ़े छ फूट लंबे चौड़े जंगल संथाल के हाथों में थी।

नक्सलबाड़ी की हवा खेतों, जंगलों, जमीन से होती हुई देश के कई हिस्सों में फैल गई, चिंगारी भड़क रही थी। निशाने पर थे जमीनदार और किसानों-मजदूरों को प्रताड़ित करनेवाले 'बड़े लोग'। कम्युनिस्टों के अलग अलग संगठन बनने लगे। शुरुआत में इसके नियम कानून लिखने की जिम्मेदारी चारु मजमुदार पर ही थी। इन्हीं सब सिद्धांतों को ध्यान में रखते हुए साल १९६९ में CPI (ML) का गठन हुआ और इनके पहले महाशचिव मजमुदार ही बने गए। ७० के दशक में ये विद्रोह काफी तेजी से लोकप्रिय हुआ। हजारों की तादाद में युवा इससे जुड़ने लगे। यह आंदोलन हक की बात करता था। खेतीवाली जमीन को बाटना और बेजमीन किसानों के हक की आवाज बुलंद करना आंदोलन के बड़े मुद्दे थे।

उसी बीच साल १९७२ में चारु मजमुदार की पुलिस हिरासत में ही मौत हो गई। चारु मजमुदार चीनी नेता माओ और रुस के लेलिन से प्रभावित थे और आंदोलन को उन्हीं की तर्ज पर चलाना चाहते थे। धीरे-धीरे विद्रोह के एक और बड़े चेहरे कानू सान्दाक भीहाशिए पर चले गए और साल २०१० में उन्होंने खुदखुशी कर ली।

अब तो न मजमुदार है, न कानू सान्दाक है, और न तो जंगल संथाल है। लेकिन हालिया आंकड़ों के मुताबिक देश के ११ राज्य नक्सल से प्रभावित है। कुल ९० जिलों में नक्सल हिंसा देखने को मिली है। सबसे ज्यादा नक्सल प्रभावी राज्य छत्तीसगढ़, ओडिशा, झारखंड और बिहार है। छत्तीसगढ़ में लगातार हो रही घटनाएँ इसकी तरकीद करती हैं। जहाँ नक्सली हर साल सुरक्षाबलों को निशाना बनाते हैं। नक्सलवादी दावा करते हैं कि वो आदिवासीयों छोटे किसानों और गरीबों की लड़ाई लड़ रहे हैं और जानकार ये मानते हैं कि स्थानीय लोगों के समर्थन के कारण ही इन्हें कामयाबी भी मिलती है।

“एक ही संविधान के नीचे

भूख से रिरियाती हुई हथेली का नाम 'दया' है और भूख में तनी हुई मुठ्ठी का नाम 'नक्सलबाड़ी' है।

—सुदामा पांडेय धुमिल

तनी हुई मुठ्ठी से उनका मतलब भूख, बेबसी और अत्याचार से सताए मजलूमों के हक के आवाज़ उठाने से था लेकिन हथियार, आतंक और डर के दम पर जंगलों की जमीन पर आज बहुत कुछ ऐसा हो रहा है जो शायद नहीं होना चाहिए।

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यादे....

एक इंसान की यादें एक इंसान के जैसी ही होती हैं। कहने का मतलब ये है कि एक याद की जिंदगी ठीक वैसे ही गुजरती है जैसे की इंसान की जिंदगी।

पहले एक लम्हे से एक याद का जन्म होता है। उसी लम्हे की बाहों में उस यादों को पोषण मिलता है। वो हबच्ची सी बड़ी होती है। वक्त के साथ वो याद जवान हो जाती है। जवानी के साथ आती है बेबाकी और फितुर। यादें बड़ी होने के बाद मनमर्जी करना सीख जाती है। जवान यादों को हमारी बातें और मन के हाल से कोई मतलब नहीं होता।

ज़ाहिर है कि जवानी भी कहाँ उम्र भर के लिए टिकने वाली चीज़ है। तो यादें समय के चलते बूढ़ी भी होती हैं। बूढ़ी यादों को हल्ला मचाना नहीं आता, सो वे धुंधली नज़र आती हैं। मगर मजाल है कि बूढ़ापा उनसे उनकी जिद छुड़वा दे। फिर एक वक्त आता है अब एक याद की उम्र पूरी हो जाती है।

उनमें से उनकी जान को समय चूस लेता है। यादें मर जाती हैं। फिर या तो यादों को दफ़नाया जाता है या जलाया जाता है। पर हां, इनके अंतिम संस्कार के लिए इस दुनिया में कोई ज़मीन हीं बनाई गई। तो लोग यादों को खुद के ही भीतर दफ़नाते हैं, या जलाते हैं। और यही वजह है कि हमारे अंदर से एक याद बेशक खत्म हो सकती है लेकिन, उस याद का कंकाल या उसकी राख, हमारे अंदर हमेशा पड़े रहते हैं।

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Comp. Science

“खुद से”

सब को खुश करने में वो खुद की खुशी भूलती गई...
सबकी परेशानी दूर करते करते वो अपनी परेशानी बढ़ाती गई...
सब को करीब से जानने में वो खुद से दूर होती गई...
सब से मिल-जुलकर रहने में वो खुद से मिलना भूलती गई...
सब के झगड़े सुलझाते-सुलझाते वो खुद से उलझती गई...
सब की खास बनते बनते वो खुद से पराई होती गई...
सब की दवाई बनते बनते वो खुद के लिए जहर बनती गई...
सब की सही राह दिखाते दिखाते वो अपनी राह से भटकती गई...
पर कोई है, जो खुद की खुशी का गला घोटके सब की
खुशियों की जिंदा रखती गई...

Vishva G. Shah
T.Y. Mathematics

क्या लिखु मैं तेरे बारे में!!!

सुबह की ताज़गी... शाम की रोनक है तु,
दिन की गरमाहट... रात की खामोशी है तु।
क्या लिखु मैं तेरे बारे में!!!

सूरज की किरण, चाँद की चाँदनी है तु,
तारों की रोशनी, हवाओं की रागीनी है तु।
क्या लिखु मैं तेरे बारे में!!!

तुझे देख हेरान हर परिंदा है,
एसे ही नहीं तु सब में चुनिंदा है।
क्या लिखु मैं तेरे बारे में!!!

वैसे तो तु अपने आप में एक गज़ल है,
पर तेरे आगे तो हर शब्द फिजुल है।
क्या लिखु मैं तेरे बारे में!!!

Prayash A. Barot
T.Y. B.Sc. Physics

लॉकडाउन की मेरी यादें

लॉकडाउन का असर कुछ ऐसा आया, बिना माँगी छुट्टी ने सबका हुनर जगाया...
किसी ने गाना गाया, खाना बनाया, खुद भी नाचे, बच्चों को भी नचाया, योगा किया-कराया और इन सबका विडियो भी बनाया, कविता बनायी, पेंटिंग बनायी,
उफ, बताते बताते मेरी साँस फूल आई।
इन कुछ हफ्तों ने लेकिन एक अलग ही दुनिया दिखाई
रिश्ते जो बाहटसएप के मैसेज में सिमट कर रह गए थे कभी,
उन में एक नई चमक उभर कर आई
कई बरसों बाद फोन की लिस्ट में
अपनों के, यार दोस्तों के नंबरों को खोज निकाला
बीते हुए समय की यादों को एक बार फिर से जी डाला।
जिंदगी की भागदौड़ में, स्कूल कॉलेज के चक्करों में कभी हम बिजी थे कभी बच्चे बिजी थे
आज उनके साथ पुराने नये कई खेल खेलते चले गए
संस्कारों की पोटली जो कहीं बंध पडी थी उसे भी खोलते चले गए।
सुबह की शुरुआत अब पंछियों की चहचहाट से होती है
खिड़कियां जो सिर्फ खोलती और बंद किया करती थी
आज कहाँ बैठ सुकून की चाय नसीब होती है।
अब सबकी जिंदगी में एक ठहराव-सा है।
ना खत्म होने वाले सफर में, अनायास ही मिल गया हो
जैसे एक पड़ाव सा है,
तो क्यों न कुछ देर रुकें, थमें, हंसें, रोएँ, गुनगुनाएँ
जिंदगी में आई इस नई ताज़गी को महसूस करें।
अपनों के साथ फिर से रिश्ता जोड़ा है जिस तरह क्यों ना खुद से भी जुड़ने की कोशिश करें।
ये लॉकडाउन तो बस कुछ हफ्तों में खत्म हो जायेगा,
जाते जाते जिंदगी के कुछ बंद तालों को खोल जायेगा,
और छोड़ जायेगा तो बस कुछ यादें...

Vrutanshi M. Patel
T.Y. B.Sc.(Chemistry)

अकेले हो, कमज़ोर नहिं...

अकेले हो, कमज़ोर नहीं
दिल में आशा के दिये लेके,
आँखों में ये निराशा कैसी,
अपनी खुशी को दूसरे में क्यों ढुंढना,
जब तुम खुद अपने आप में ही,
खुशियों का भंडार हो,
हाँ...

आज तुम अकेले हो,
मगर कमज़ोर नहीं,

क्यों दो दिन के आकर्षण को,
महोबबत समझ, खुदको कुर्बान कर बेठे
हो,
अकेले हो, कमज़ोर नहीं

क्यों खेलना दिलों का खेल,
जब तु दिमाग का बादशाह है
कर मेहनत और फतेह कर उन मुकाम को,
जिससे तु ने चाहा है,
जिसे लिए दुनिया के ताने,
लोगों के हस्सी, तुमने साहा है
हाँ...

अकेले हो, कमज़ोर नहीं.
दिल में आशा के दिये लेके,

दिल में निराशा कैसी,
उठ और अपनी काबिलियत से,
दुनिया की नींद उड़ा,
जब मुठ्ठी में लिए घूम रहा हैं अपनी किस्मत,
तो गैरों के सामने क्यों रोता है,
एक बार मुठ्ठी खोल कर देख,
पूरी कायनात को अपनी मुठ्ठी में रखने का क्षमता
रखता है,
अकेले हो, कमज़ोर नहीं

दिल में आशा के दिये लेके,
अस जहान में,
यूँ तन्हा क्यों घूमता हैं,
खुद से बढ़ कर खुद का साथी,
कोई और ना होता,
और...

खुद से बढ़कर खुद का प्रतियोगी,
इस दुनिया में कोई नहीं,
हाँ आज तू अकेला हैं,
मगर कमज़ोर नहीं।

Medha Sinha
T.Y. B.Sc.(Chemistry)

जिंदगी के रूप!

भर गया तू इतनी नमी आँखों में
की इन आँसुओं को अब रोका नहि जाता।

दे गया गम तू इतने इस दिल को की
इन्हे अब और पीया नहि जाता।

छोड़ के गया घावों को तुम कुछ इस कदर
की अब इसके साथ जीया नहि जाता।

चाहत थी जिन सपनों को तेरे साथ पूरा करने की
अब वो सपने, सपने बनकर ही रह गये।

जिसे करनी थी तेरे साथ जिंदगी की सफर
अब तो तुही उसे बिच राह छोड़ चला गया।

चलाता है जब समय अपना पहिया
तो जिंदगी भी अपना चेहरा बदल देती है
अब जाकर मुझे ये समझ आया।

Charmee B. Satasiya
T.Y. Microbiology

लड़की हूँ मैं

हा, लड़की हूँ मैं मुश्किलों से लड़ती भी हूँ मैं

दिल मे दर्द का दरिया भी रखती हूँ मैं
पर चहेरे पे मुस्कुराहट भी रखती हूँ मैं

अकेले रास्तों में कभी कमज़ोर पड़ती हूँ मैं
पर अंदर महाकाली का रूप भी रखती हूँ मैं

उन ५ दिनों में मौत के मुंह से लड़ के आती हूँ मैं
पर सबसे दर्द छुपाकर सहन करना भी जानती हूँ मैं

अपनो के लिए खुद के सपनो को भी जला देती हूँ मैं
पर अपनो के सपनो को खुद का सपना बना लेती हूँ मैं

अपनी मर्जी से जीने पर लोगों के ताने भी सुनती हूँ मैं
पर उन्ही ताने में से Motivation भी लेना रखती हूँ मैं

हा, लड़की हूँ मैं इन मुश्किलों से लड़ती भी हूँ मैं

Shreya Kamaliya
T.Y. B.Sc. Physics

“माँ”

उसको हजारों काम होते हैं,
फिर भी घर में सबका ख्याल रखती हैं।
सुबह उसकी आवाज सुनकर होती है,
तो शाम उसकी गोदी में होती है।
उसकी गोदी में जैसे जन्नत है,
वहा ना कोई काम और ना कोई शोर है।
उसके हाथ के खाने में जैसे उलग ही स्वाद है,
वहा पिज्जा और बर्गर भी बेस्वाद है।
जब भी बिमार होती हूं तो जुबान पे तेरा ही नाम है,
तेरे हाथ से खाई वो दवाई भी मीठी है।
तेरा सर पे हाथ रख के सुलाना वो खास है,
तेरा बेवजह डाटना भी मुझे मीठा लगता है।
तेरी मार भी मिठाइ लगती है,
क्युकी उसमे छुपा तेरा मीठा प्यार है।
तु सदा खुश रेह बस एक ही भगवान से प्रार्थना है,
कहते है तेरे चरणों में स्वर्ग है,
तु मेरी जिंदगी मेरी प्यारी “माँ” है।

Vishva G. Shah
T.Y. Mathematics

जिंदगी

होती अगर आसान
तो मजा कहा होती
बिना मशकिलों की
जिन्दगी थोड़ी होती
बिना मांगे मिल जाए
तो कदर किसकी होती
बिना महेनत की
मंजिल थोड़ी होती
बिना पत्थर राह होती
तो सबक क्या होती
बिना संघर्ष की
जीत की खुशी थोड़ी होती

Shreya Kamaliya
T.Y. B.Sc. Physics

“दिदाए-ए-महोबबत”

छाँव वो जो जुल्फो की तेरी,
उलज़न वो जो बातों में तेरी,
डूबा मैं उन खयालों में,
घायल करे वो निगाहे तेरी,
गुमराह करे वो यादे तेरी,
किया महसूस उन साँसों को मेरी,
जिसमे बसी धड़कने तेरी।
हवाओं में बहती खुशबू तेरी,
बयां करे तुझे वो लिखावट मेरी,
क्या कह दूँ ज़माने से के तु है कलम मेरी,
तु सोच, तु जान, तु है जिंदगी मेरी।

Prayash A. Barot
T.Y. B.Sc. Physics

ये गलत है!

आपको मुझसे इश्क हुआ है
ये पता है मुझे, लेकिन
इश्क करके आपका मुझसे ही यूं छूटना
ये गलत है।

यूं तो आप शरमाके पलको को झूका लेते हो,
पता है मुझे, लेकिन
मुझे देखते ही पलको को यूं झूका लेना,
ये गलत है।

यूं तो आपका छोटे-छोटे चुटकुलो पर हँसना,
पता है मुझे, लेकिन
मुझे देखते ही हँसी को यूं रोक लेना,
ये गलत है।

यूं तो आप अकेले में कई आँसू बहाते हो,
पता है मुझे, लेकिन
मुझे देखते ही आँसू को यूं पोंछ लेना
ये गलत है।

यूं तो आपका मन बातें करने को बहोत करता है,
पता है मुझे, लेकिन
मुझे देखते ही आपका यूं खामोश हो जाना
ये गलत है।

यूं तो आप मुसीबतों का सामना बड़ी सहजता से
कर लेते हो, पता है मुझे लेकिन
मुझे देखते ही आपका यूं कमज़ोर हो जाना,
ये गलत है।

आपका दिल तो आपको बहुत कहता है, इश्क
के इज़हार को, पता है मुझे, लेकिन
मुझे पाते ही दिल को यूं नाराज़ करना
ये गलत है।

इश्क करके आपका मुझसे ही यूं छूटना
ये गलत है।

बेवा

हा, बेवा है वो,
क्या करोगे ?
उसकी जिन्दगी जो तबाह हो ही गई है
क्या अब उसे भी,
मार डालोगे ?

उसके चहेरे का नूर,
दिल का सुकून,
आँखों की चमक,
चली तो गई,
क्या अब उसकी !!
घड़कन भी रोक लोगे ?

हाथों की चूड़िया,
होठों की लाली,
आँखों का काजल,
निकाल ही दिया है,
तो क्या अब जिस्म से उसकी !!
रुह भी छिन लोगे ?

वो चहेरे की मुस्कान,
ओर रंगीन साड़ी,
कानों का जुम्हा,
कुछ खो सा गया है,
अब क्या रिवाजों से उसके !!
खून भी सोख लोगे ?

उमर ही क्या है
अभी उसकी ?
नाता क्या जिन्दीगी से उसका
तोड़ ही दोगे ?

Charmee B. Satasiya
T.Y. Microbiology.

Varsha Makwana
T.Y. Microbiology

Woh din bhi Kiya Din the

याद आने लगे है वो दिन,
जब किसीकी खिंचने पर
पुरी C/9 की सैर करना पड़ता था।
फिर भी उड़ाने में पूरी paltan साथ दिया करती थी।
याद आने लगे वो Canteen Mates जो 10 min के break में भी
Canteen में 30 min को महफ़िल बना लिया करते थे।
याद आने लगी है वो Mataka की Chai Team जहाँ
एक Confusion Create हो जाता था कि... साला Coffee लेना ही भूल जाते थे
उनकी गलती पर हम फंस जाते
याद आने लगे है अब वो Laxmi की contri
जहाँ Chai 8 Rs. की होती और देना 10 Rs. होता
बचे गए पैसों का करे तो क्या करे ये चिंता अलग
फिर Result is की chocolates लेना चाहिए
कोन सी ले center-fresh या Melody या कुछ और ???
finally दिन भर की मस्ती पूरी होने पर
Ranak-square वालो की तो अलग tension 7:00 बजे का Alarm.
याद आने लगे है वो shastri के चक्कर मारना
कभी casual तो कभी दिल हल्का करने के लिए
कभी यादों को महसूस करने के लिए तो कभी time spend
करने के लिए तो कभी #loveriya को देखने के लिए तो
कभी Couples को मिलवाने के लिए
मुस्कुराते चेहरे जो अपनो के साथ ये उनकी याद आने लगी है Exams से
पहेले Endless talks याद आने लगी है
Dosto आज तुम सब की वो गांडु गिरी याद आने लगी है
परेशान करके समझाने की दो बातें याद आने लगी हैं।

Namasyaa T. Behera
T.Y. B.Sc.(Chemistry)

ना जाने क्या?

यु तो मैं लिखना नहीं चाहती
आज भी कुछ भी...

पर दिलने कहा, जज्बात बदल
खुदको संभाल और, मूड़ बदल
आशा जगा और गम बदल
पागल है तु, जरा सोच बदल
सोचा था पहले नहीं लिखना
कुछ भी...

पर दिल कह रहा है, कुछ तो मेरी भी सुन,
जज्बात बदल और सुकुन को सुन
डरा डरा सा है, न जाने मैं क्या
संभलना चाहा, ना संभला फिर भी क्या
जुदा हुआ मेरे मन से, न जाने मैं क्या
खो गया सुकुन, पर न जाने मैं क्या
कहाँ गया है, नहीं पता
कब गया वो, नहीं पता
कैसे गया यह, नहीं पता
कब लौटेगा, नहीं पता

इतना सवाल लिए दिल में
आज खड़ी हूँ मैं
राह देखे सुकुन की
प्यासी हूँ मैं
ना आया फिर भी लेके कोई
चुटकी का सुकुन यहाँ
सवाल लिए अपने
फिर मुड़ गई हूँ मैं

Devanshi Tailor
T.Y. Microbiology

उम्र

तु क्यू इतना भागी जा रही हो
ए उम्र...! ज़रा ठहर जा
अभी तो चलना शुरू किया है मैंने
ख्वाब है उतने जितनी नहीं है उम्र मेरी
ए उम्र...! मत भाग इतनी तेज
अभी तो ख्वाब देखना शुरू किया है मैंने
ज़िद है हर ख्वाब को पाने की मेरी
ए उम्र...! मत दौड़ इतना
अभी तो भीड़ में रहना शुरू किया है मैंने

Shreya Kamaliya
T.Y. B.Sc. Physics

“एक तरफ़ा महोब्बत”

मोहोब्बत है तुझसे ए दिल से इजहार करता हूँ...
एक तरफ़ा ही सही, मगर सच्चा प्यार करता हूँ...
तेरी यादों के बादलों में खुदको ढूँढता हूँ...
एक मुसाफिर तेरा, तुझे ही पाया करता हूँ...
सपने में होती है उन मुलाकात के सहारे...
खुद को भूला के तुझमें समाया रहता हूँ...
इश्क था, इश्क है और ये इश्क रहेगा...
तु रहे या ना रहे पर ये दिल हमेशा तेरा ही रहेगा...

Prayash A. Barot
T.Y. B.Sc. Physics

Activities of the Clubs 2021-22



Science Carnival



Women Development cell



Equal opportunity cell

Activities of the Sports Club 2021-22



National Social Service (NSS) - 2021-22



National Cadet Corps (NCC) - 2021-22



National Cadet Corps (NCC) - 2021-22



વિધાનગર વી.પી.સાયન્સ કોલેજમાં સાયન્સ કાર્નિવલ યોજાયો



વિધાનગર વી.પી.સાયન્સ કોલેજમાં સાયન્સ કાર્નિવલ યોજાયો. આ કાર્નિવલમાં વિદ્યાર્થીઓએ વિવિધ સાયન્સ પ્રયોગો કરીને તેમની જાણકારી વધારી હતી.

વી.પી. સાયન્સ કોલેજમાં ઈન્ટર-કોલેજ એટ સ્પર્ધા યોજાઈ



વી.પી. સાયન્સ કોલેજમાં ઈન્ટર-કોલેજ એટ સ્પર્ધા યોજાઈ. વિદ્યાર્થીઓએ વિવિધ ક્રીડા પ્રકારોમાં ભાગ લઈને તેમની ક્ષમતાઓ પ્રદર્શિત કરી હતી.

યુનિવર્સિટીના સાયન્સ વિદ્યાશાખાના તમામ ગોલ્ડ મેડલ ચારૂતર વિદ્યાર્થીઓની કોલેજોના ફાળે



યુનિવર્સિટીના સાયન્સ વિદ્યાશાખાના તમામ ગોલ્ડ મેડલ ચારૂતર વિદ્યાર્થીઓની કોલેજોના ફાળે. આ ઉપર વિદ્યાર્થીઓએ વિવિધ સાયન્સ પ્રયોગો કરીને તેમની જાણકારી વધારી હતી.

વી.પી. સાયન્સ કોલેજમાં સ્વાસ્થ્ય વેડોનકોની સિડીઓનું પ્રદર્શન થયું



વી.પી. સાયન્સ કોલેજમાં સ્વાસ્થ્ય વેડોનકોની સિડીઓનું પ્રદર્શન થયું. આ કાર્નિવલમાં વિદ્યાર્થીઓએ વિવિધ સાયન્સ પ્રયોગો કરીને તેમની જાણકારી વધારી હતી.

વી.પી. સાયન્સ કોલેજમાં સ્પર્ધાત્મક પરિક્ષા તૈયારી માટે માર્ગદર્શક સેમિનાર યોજાયો



વી.પી. સાયન્સ કોલેજમાં સ્પર્ધાત્મક પરિક્ષા તૈયારી માટે માર્ગદર્શક સેમિનાર યોજાયો. આ સેમિનારમાં વિદ્યાર્થીઓએ વિવિધ સાયન્સ પ્રયોગો કરીને તેમની જાણકારી વધારી હતી.

વી.પી. સાયન્સ કોલેજમાં ઝૂ ફેસ્ટ યોજાયો



વી.પી. સાયન્સ કોલેજમાં ઝૂ ફેસ્ટ યોજાયો. આ ફેસ્ટમાં વિદ્યાર્થીઓએ વિવિધ સાયન્સ પ્રયોગો કરીને તેમની જાણકારી વધારી હતી.

વી.પી. સાયન્સ કોલેજમાં કોરોના વેક્સીન સંશોધક ડૉ. નીતા પટેલની શુભેચ્છા મુલાકાત



વી.પી. સાયન્સ કોલેજમાં કોરોના વેક્સીન સંશોધક ડૉ. નીતા પટેલની શુભેચ્છા મુલાકાત. આ મુલાકાતમાં વિદ્યાર્થીઓએ વિવિધ સાયન્સ પ્રયોગો કરીને તેમની જાણકારી વધારી હતી.

વી.પી. સાયન્સ કોલેજમાં પછાત વર્ગોને મળતા લાભ અંગે કાર્યક્રમ યોજાયો



વી.પી. સાયન્સ કોલેજમાં પછાત વર્ગોને મળતા લાભ અંગે કાર્યક્રમ યોજાયો. આ કાર્યક્રમમાં વિદ્યાર્થીઓએ વિવિધ સાયન્સ પ્રયોગો કરીને તેમની જાણકારી વધારી હતી.

યુનિ.ના સાયન્સ વિદ્યાશાખાના અધ્યા જ ગોલ્ડ મેડલ ચારૂતર વિદ્યાર્થીઓની કોલેજોના ફાળે



યુનિ.ના સાયન્સ વિદ્યાશાખાના અધ્યા જ ગોલ્ડ મેડલ ચારૂતર વિદ્યાર્થીઓની કોલેજોના ફાળે. આ ઉપર વિદ્યાર્થીઓએ વિવિધ સાયન્સ પ્રયોગો કરીને તેમની જાણકારી વધારી હતી.

વી.પી. સાયન્સ કોલેજ અને પટેલ સાયન્સ કોલેજની સિદ્ધિ



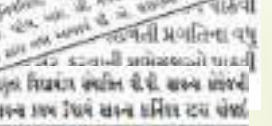
વી.પી. સાયન્સ કોલેજ અને પટેલ સાયન્સ કોલેજની સિદ્ધિ. આ સિદ્ધિમાં વિદ્યાર્થીઓએ વિવિધ સાયન્સ પ્રયોગો કરીને તેમની જાણકારી વધારી હતી.

વી.પી. સાયન્સ કોલેજમાં રક્તદાન કેમ્પ



વી.પી. સાયન્સ કોલેજમાં રક્તદાન કેમ્પ. આ કેમ્પમાં વિદ્યાર્થીઓએ વિવિધ સાયન્સ પ્રયોગો કરીને તેમની જાણકારી વધારી હતી.

વી.પી. સાયન્સ કોલેજમાં વીર વિહારભાઈ પટેલ વ્યાખ્યાનમાળા



વી.પી. સાયન્સ કોલેજમાં વીર વિહારભાઈ પટેલ વ્યાખ્યાનમાળા. આ વ્યાખ્યાનમાળામાં વિદ્યાર્થીઓએ વિવિધ સાયન્સ પ્રયોગો કરીને તેમની જાણકારી વધારી હતી.



Amrut Mahotsav 2021-22



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