

Reflections

2023-24



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.



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

VALLABH VIDYANAGAR

Reflection : 2023-24

(Annual College Magazine)

PATRONS

Er. Bhikhubhai Patel, Chairman, CVM

Dr. S. G. Patel, Secretary, CVM

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

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Shri. P. A. Lashkari, I/c. Principal

EDITORS

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

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

EDITORIAL BOARD

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

Dr. Charudutt R. Gurjar (English Dept.)

STUDENT MEMBER

Mr. Biren Chaudhary (Student Secretary)



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

Vallabh Vidyanagar - 388 120

Re-Accredited "A" Grade by NAAC, Banglore 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.



राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद
विश्वविद्यालय अनुदान आयोग का स्वायत्त संस्थान
NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL
An Autonomous Institution of the University Grants Commission

Certificate of Accreditation

*The Executive Committee of the
National Assessment and Accreditation Council
is pleased to declare the
Vitthalbhai Patel and Rajratna P. J. Patel Science College
Vallabh Vidyanagar, Dist. Anand, affiliated to Sardar Patel University,
Gujarat as
Accredited
with CGPA of 3.13 on four point scale
at A grade
valid up to February 13, 2025*

Date : February 14, 2020



*S. C. Sharma
Director*

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Message from Editor



Dear Esteemed Readers,

It is with immense pleasure and excitement that we present to you the latest edition of our Annual Magazine, 'REFLECTIONS-2023-2024'. This magazine stands as a testament to the dynamic creativity, self-expression, and enthusiasm of our students. More than just a publication, 'REFLECTIONS' serves as a canvas where the boundless potential, talents, achievements, and vision of our college community come to life.

Education finds its true purpose when individuals are empowered to express their creativity without inhibition. Through this platform, we endeavor to unlock the fullest potential of our students, fostering an environment where expressions flow freely and without reservation. It is through endeavors like 'REFLECTIONS' that we deepen the bond between our college and its students, creating memories that will endure for a lifetime.

On behalf of the Literary Club, we extend our heartfelt gratitude to our esteemed Principal, Mr. P. A. Lashkari, for his unwavering support and faith in our endeavors. His encouragement has consistently propelled us to strive for excellence. We also express our gratitude to Dr. P. M. Patel, Vice President of the Students' Central Committee, as well as the dedicated student secretaries, members of the editorial board, and all contributors for their tireless efforts in bringing this magazine to fruition.

We sincerely hope that 'REFLECTIONS-2023-2024' resonates deeply with you, our cherished readers, and finds a special place in your hearts. Your feedback is invaluable to us as we continue to evolve and elevate the magazine to new heights.

Here's to a year filled with great success and synergy in all our endeavors!

Warm regards,

Dr. R. H. Parab

Editor & Ex-Officio
Literary Club

Dr Y. B. Vadwala

Editor & Ex-Officio
Literary Club

Message from the Chairman's Desk



Er. Bhikhubhai B. Patel
CHAIRMAN



CHARUTAR VIDYA MANDAL

P. B. NO. 22 VALLABH VIDYANAGAR-388 120 GUJARAT INDIA
GRAM : CHARUTAR.PHONE : (O) 02692-238400, Fax : 236493
Website : www.ecvm.net e-mail : cvmandal@hotmail.com

MESSAGE

It's truly commendable to witness the longstanding tradition of Vallabh Vidyanagar's premier college, which has been publishing its college magazine since its inception in 1947. The students enrolled here are indeed privileged to be part of such a prestigious institution, one that consistently excels in all aspects and sets high standards for others to follow.

The college magazine serves as an excellent platform for students to showcase their interests and talents through their literary skills. I am confident that as you progress in your academic journey, this skill will continue to develop, preparing you for future endeavors such as publishing papers in national and international journals. It is essential for students to remain proactive in updating their knowledge and seek guidance from the esteemed faculty members of our college to make informed decisions about their career paths.

I extend my heartfelt congratulations to the Principal, the magazine committee, and all the dedicated faculty members for their efforts in bringing forth this issue of the magazine. My best wishes go out to each and every one of you as you continue to strive for excellence in your academic pursuits.

Warm regards,

Er. Bhikhubhai Patel
Chairman,
Charutar Vidya Mandal

Message from the Vice-President



MANISHBHAI S. PATEL
VICE-PRESIDENT



CHARUTAR VIDYA MANDAL

P. B. NO. 22 VALLABH VIDYANAGAR-388 120 GUJARAT INDIA
GRAM : CHARUTAR.PHONE : (O) 02692-238400, Fax : 236493
Website : www.ecvm.net e-mail : cvmandal@hotmail.com

MESSAGE


I am delighted to express my appreciation for the consistent publication of the Annual College Magazine, "**Reflections**" by V.P & R.P.T.P. Science College.

I extend my heartfelt gratitude to the entire team of V.P & R.P.T.P. Science College for their dedication and commitment to organize a wide array of activities, both extra-curricular and co-curricular, throughout the academic year 2023-24. The official documentation of these endeavors in the form of the college magazine, "**Reflections**" is a testament to the hard work and enthusiasm of both students and staff.

I offer my sincere congratulations to all those who have contributed to the development of this magazine for the year 2023-2024.

Wishing the very best to the team of V.P & R.P.T.P. Science College for the forthcoming academic year

Warm regards,


Manish S. Patel
Vice President
Charutar Vidya Mandal

Message from the Hon.Secretary



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



CHARUTAR VIDYA MANDAL

P. B. NO. 22, MOTA BAZAR, VALLABH VIDYANAGAR-388 120,
TA & DIST : ANAND, GUJARAT INDIA
PHONE : (0) 02892-238400
Website : www.ecvm.net e-mail : cvmandal@hotmail.com

MESSAGE


Established in 1947, V.P. and R.P.T.P. Science College holds the distinction of being one of Gujarat's oldest educational institutions, inaugurated by none other than the Iron Man of India. As an alumnus, I take immense pride in this legacy.

It brings me great joy to see a plethora of students contributing articles on various topics. The tradition of publishing a magazine that encapsulates all college activities and providing students with a platform to express their thoughts is truly commendable.

I extend my heartfelt congratulations to Mr. P.A.Lashkari and his capable team for their dedication in bringing forth this edition. I am confident that this practice will continue to thrive, encompassing an even wider range of articles in the years to come.

Here to continued success and growth for V.P. and R.P.T.P. Science College.

Best wishes to all,


Dr. S.G. Patel
Hon. Secretary
Charutar Vidya Mandal
16.03.24

Message from the Hon.Jt.Secretary



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



CHARUTAR VIDYA MANDAL

P B. NO. 22, MOTA BAZAR, VALLABH VIDYANAGAR-388 120,
TA & DIST : ANAND, GUJARAT INDIA
PHONE (O) 02692-238400
Website www.ecvm.net e-mail : cvmandal@hotmail.com

MESSAGE

"I firmly believe in creating an environment conducive to learning rather than simply imparting knowledge to my children." - Albert Einstein

It fills me with great pride to declare that V.P. and R.P.T.P. Science College has been fostering an atmosphere where students can explore, grow, and discover their strengths for the past 76 years. Today, I am delighted to announce the release of this year's annual college magazine from V.P. and R.P.T.P. Science College. Such initiatives are instrumental in unleashing the creative potential of our students and instilling in them valuable lessons of cooperation, leadership, and teamwork.

I am thrilled to extend my heartfelt congratulations and best wishes to the Principal, faculty members, and all our beloved students for their efforts in bringing forth this magnificent magazine. May it serve as a beacon of inspiration and a testament to the spirit of learning and collaboration that defines our institution.

Warm regards,

Ramesh Talati
Hon. Jt. Secretary
Charutar Vidya Mandal

Message From The Principal



Dear Students,

Since its founding, V.P. and R.P.T.P. Science College has published an annual magazine as part of a long-standing tradition. We are publishing periodicals with unwavering attention to detail, upholding the great legacy of our founders. Any college's magazine is essentially an expression of the institution and the work it does. That the college is prepared with its annual publication makes me delighted.

We sincerely hope that you will maintain your ties to and affinity for the college long after you graduate and go on to your next academic endeavor. If you could provide training and placement for your juniors, that would be excellent mentoring. I must commend the magazine committee, the contributors, and Dr. R. H. Parab and Dr. Yogesh Vadwala for their timely completion of the assignment.

Wish you all the best for your future.

Mr. P. A. Lashkari
I/C Principal

Message From the Vice President



Serving as the Vice President of the College Central Committee has been an absolute honor and privilege. It's truly remarkable to witness the enriching educational environment provided by our esteemed college, where students are fortunate to receive education amidst a backdrop of healthy harmony and strong values that have shaped the futures of countless individuals.

"The mind is not a vessel to be filled, but a fire to be kindled." Our college magazine, 'Reflections' ignites the imagination of our learners, serving as a platform for expression and idea-sharing. I extend my heartfelt congratulations to the staff and students who have utilized various mediums to articulate their thoughts and ideas. It is through this expression that true learning occurs, as every endeavor begins with a spark of inspiration.

I commend every student who has embraced the joy of participation in both co-curricular and extracurricular activities, alongside their academic pursuits. It is the extra effort we invest that truly enhances our experiences.

I take this opportunity to express my gratitude to the Principal, the Central Committee, Ex-officios, Student Secretaries, faculty members, and all staff and students for their unwavering support and cooperation throughout the year.

Remember, dreams are free, as are ideas. So, dare to dream without fear and work diligently to achieve them. May happiness and success accompany you on your journey,

Wish you all the best.

Dr. P. M. Patel

Vice President

Students' Central Committee

Message from The General Secretary



“If your actions inspire others to dream more, learn more, and do more, you are truly a leader.”

Success is not solely measured by the heights one reaches in life, but rather by the obstacles overcome along the way. It is in the pursuit of our dreams that we find fulfillment, and it has been a profound honor and privilege to serve as the General Secretary of one of Gujarat’s premier Science Colleges.

Our college stands as a beacon of freedom of thought, fostering vision, growth, and a deep-rooted commitment to human values and environmental stewardship. The journey towards greatness is not achieved overnight; it is the result of decades of dedicated effort and evolution in knowledge and practice. Our team and faculty members are unwaveringly dedicated to the continued development of our institution.

To me, leadership is not about being strong at the expense of kindness, or proud at the cost of humility, it is about strength tempered with compassion, thoughtfulness balanced with courage, and pride coupled with humility. I am immensely grateful to our Principal, Mr.P. A. Lashkari, and my fellow faculty members for entrusting me with this responsibility. I also extend my heartfelt gratitude to my team, whose unwavering support has been instrumental throughout the year.

As we approach the close of this academic year, let us reflect on our achievements and renew our commitment to excellence in the year ahead.

Warm regards,

General Secretary

Message from The Student Secretary



This past year has been one of profound self-discovery for us. Serving as Magazine Secretaries has provided us with an invaluable opportunity to not only grow personally but also to unearth our hidden talents. It has truly been the highlight of our college experience so far.

The inception of the Reading Club has been a significant milestone, bringing together students from various semesters and disciplines to form a cohesive community of like-minded individuals. Through their shared passion for literature and learning, they have actively contributed to enhancing the quality of articles and other club activities. We eagerly anticipate witnessing the continued growth and strength of the club in the coming years.

Our heartfelt gratitude goes out to our esteemed Principal, Mr. P.A.Lashkari, as well as Dr. R. H. Parab, Dr. YogeshVadwala and all members of the Literary Club.

Thank you for your unwavering support and guidance, which have made this past year immensely fulfilling. Here's to another year of growth, discovery, and shared achievements.

Warm regards,

Mr. Biren Chaudhary

Student Secretary,
Literary club.

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, under developed 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 Ph D 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 Accreditation	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 Ph D degree
- * University Recognized research centers for Ph D 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 2023-24***



JEBAN MAKSUD IBRAHIM NATHA
DR. H. K. PATEL CHARUTAR VIDYA MANDAL
GOLD MEDAL (PHYSICS)



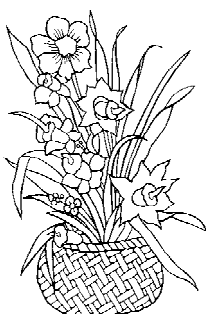
NISARG DILIPBHAI SANKHALA
KAMDAR BHANUPRASHAD MOHANLAL
BHATT AND SMT JASHODABEN
BHANUPRASHAD BHATT
GOLD PLATED MEDAL



PARTHKUMAR SHAILESHKUMAR MAKWANA
SHRI KUBERBHAI VRAJBHAI PATEL GOLD PLATED
MEDAL (OVER ALL, ALL STUDENTS)(MATHEMATICS)
PRIN. N. D. DESAI GOLD PLATED MEDAL
(MATHEMATICS & STATISTICS) (MATHEMATICS)



VIRENKUMAR MANOJBHAI PATEL
SHRI BABUBHAI JASHBHAI PATEL GOLD
PLATED MEDAL (ELECTRONICS)



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

I/C PRINCIPAL : Mr. Piyush A. Lashkari

PHYSICS			
1.	Dr. P. M. Patel (HOD)	6.	Mrs. J. N. Batra (P.T.)
2.	Dr. J. K. Baria	7.	Dr. Suvrajyoti Bhattacharjee
3.	Dr. A. R. Jivani	8.	Dr. Umesh Kumar Gaur
4.	Dr. T. H. Patel	9.	Dr. Mayuri Y Barot
5.	Dr. P. S. Vyas	10.	Ms. Chetna M Patel
CHEMISTRY			
1.	Dr. B. C. Dixit (HOD)	8.	Dr. Mrs. T. K. Darji
2.	Dr. H. R. Maradia	9.	Mr. A. K. Patel
3.	Dr. K. D. Patel	10.	Dr. V. B. Kataria
4.	Dr. M. M. Morekar	11.	Dr. M. J. Patel
5.	Dr. M. K. Valand	12.	Dr. Y. B. Vadwala
6.	Dr. Mrs. G. M. Patel	13.	Dr. Bhavin. C. Patel
7.	Dr. R. H. Parab	14.	Dr. Darshita.V.Vaja
INDUSTRIAL CHEMISTRY			
1.	Dr. P. M. Patel (HOD)	3.	Mr. Nirav H. Patel
2.	Dr. Bhavesh D. Dhorajiya	4.	Dr. Sunil M. Galani
BOTANY			
1.	Dr. J. P. Patel (HOD)	4.	Dr. B. N. Patel
2.	Ms. R. H. Solanki	5.	Dr. Nalin K Pagi
3.	Dr. Mrs. N. H. Brahmbhatt		
ZOOLOGY			
1.	Dr. N. B. Bhatt	3.	Dr. Rajiv Z. Bhatti
2.	Mrs. M. K. Patel		
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)	5.	Dr. Shaliesh A Bhanotar
2.	Mr. H. B. Madhwani	6.	Ms. Nayna G. Kalsariya
3.	Dr. Neha B Rathod	7.	Ms. Krupanshi N. Patel
4.	Dr. Iram I Jadav	8.	
ELECTRONICS			
1.	Mr. P. A. Lashkari (HOD)	3.	Mr. K. C. Raval
2.	Dr. Mrs. M. Vinodkumar	4.	Dr. (Ms.) M. H. Patel
COMPUTER SCIENCE			
1.	Mr. R. H. Sadhu (HOD)	3.	Dr. Jasmin B Parmar
2.	Dr. Jayesh J Gamar		
ENGLISH			
1.	Dr. C. R. Gurjar (HOD)	2.	Dr.Darshanaben J. Acharya

PHYSICAL TRAINING INSTRUCTOR			
1.	Dr. J. K. Chauhan		
	LIBRARY		
1.	Dr. L. M. Katara (Librarian)		
	OFFICE		
1.	Mr. A. S. Patel	3.	Mr. K. R. Patel
2.	Mr. R. V. Patel	4.	Mr. H. J. Patel
	LABORATORY ASSISTANT		
1.	Mr. R. P. Barot	3.	Ms. J. J. Patel
2.	Mr. P. B. Bhoi	4.	Mr. Hitesh H. Ramrakhiani
	ADHOC TEACHING STAFF		
1.	Ms. Vidhi H. Patel	5.	Ms. Neeluben Rathod
2.	Ms. Ami. N. Patel	6.	Mr. Dipak R. Tank
3.	Ms. Grace B. Christian	7.	Ms. Trushna K. Patel
4.	Ms. Payal H. Sheth		
	ADHOC NON TEACHING STAFF		
1.	Mr. Rasik P. Bariya	5.	Ms. Priti C. Patel
2.	Mr. Tejas J. Patel	6.	Ms. Shreya B. Patel
3.	Mr. Umang A. Patel	7.	Mr. Deep H. Patel
4.	Mr. Neel G. Patel	8.	Mr. J. K. Parmar
		9.	Mr. Parth Dave
	ચતુર્થ વર્ગના કર્મચારીઓની યાદી		
૧.	વાઘેલા મંગળભાઈ શનાભાઈ	૪.	વણકર દિલીપભાઈ સિમોનભાઈ
૨.	માછી દિલીપભાઈ લલ્લુભાઈ	૫.	પ્રજ્ઞપતિ મહેશભાઈ બી.
૩.	પાંડવ ચંદ્રુભાઈ બાબુભાઈ	૬.	ભોઈ ચિરાગભાઈ ડી.
	ચતુર્થ વર્ગના કર્મચારીઓની યાદી (SELF FINANCE)		
1.	Mr. Pankaj R. Baraiya	4.	Mr. Vithalbhaj J. Patel
2.	Mr. Ashish J. Patel	5.	Mr. Vinubhai J. Parmar
3.	Mr. Bhavin A. Patel		
	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. Bhavesh A. Patel
6.	Mr. Rahul S Parekh		

“If you have to put someone on a pedestal, put teachers.
They are society's heroes.” - **Guy Kawasaki**

“One book, one pen, one child and one teacher can change the world.” -
Malala Yousafzai

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

ACADEMIC YEAR – 2023-24

In all the below mention Committees Principal will be Chairperson.			
1. IQAC			
1.	Nikunj Bhatt (Coordinator)	2.	Dr. C. R. Gurjar
2. COUNSELLING & PARENT CELL			
1.	Dr. C. R. Gurjar (Coordinator)	4.	Miss. Chetna. M. Patel
2.	Mr. H. B. Madhwani	5.	Dr. Priyanka Thorat
3.	Dr. (Mrs.) G. M. Patel		
4.	Mr. A. A. Shukla		
3. LIBRARY ADVISORY COMMITTEE			
1.	Dr. P.M. Patel, IC (Coordinator)	2.	Mr. L. M. Katara
3.	Dr. P. M. Patel, Phy.	4.	Mr. R. P. Solanki
	(Student Central Committee - GS)		
4. WEBSITE, INTERNET & COMPUTER WORK COMMITTEE			
1.	Dr. Nikunj Bhatt (Coordinator)	2.	Dr. Jayesh J Gamar
3.	Dr. Jasmin B Parmar	4.	Mr. H. H. Ramrakhiani
5.	Payalben Sheth	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. Nalin. K. Pagi
5.	Dr. Nayanaben Brahmbhatt	6.	Dr. Suvrajyoti Bhattacharjee
7.	Dr. N. B. Bhatt	8.	Dr. C. R. Gurjar
9.	Dr. J K Baria		
6. INDUSTRY INSTITUTE INTERACTION CELL (TRAINING & PLACEMENT CELL)			
1.	Dr. Vipul B. Katariya (Coordinator)	2.	Dr. Sunil M. Galani
3.	Suvrajyoti Battacharjee	4.	Dr. Umesh Gaur
7. EQUAL OPPORTUNITY CELL			
1.	Dr. Vipul. B. Kataria (Coordinator)	2.	Mr. L.M.Katara
3.	Mr. Nirav H. Patel	4.	Dr. Viral V Desai
5.	Mr. J. K. Parmar	6.	(Gender Champion Boys)
7.	(Gender Champion Girl)		
8. ALUMNI ASSOCIATION			
1.	Dr. B. C. Dixit	2.	Dr. T. H. Patel
3.	Ms. S. K. Menon	4.	Dr. J. P. Patel
5.	All the staff members who are alumni of the college		
9. WOMENS DEVLOPMENT CELL			
1.	Mrs. S.K.Menon (Coordinator)	2.	Dr. Nisha I Chauhan
3.	Dr. Iram I Jadav	4.	Dr. Mrs. Neha B. Rathod
10. EXAMINATION COMMITTEE			
1.	Dr. J. P. Patel (Coordinator)	2.	Dr. A. R. Jivani
3.	Dr. Bhavesh D Dhorajiya	4.	Mr. Anirudh Rana

11. TIME TABLE COMMITTEE			
1.	Dr. P. M. Patel (Phy) (Coordinator)	2.	Dr. B. C. Dixit
3.	Dr. J. P. Patel	4.	Dr. C. R. Gurjar
12. STUDENT GRIEVANCE REDRESSAL COMMITTEE (Including Exam)			
1.	Dr. M. M. Morekar (Coordinator)	2.	Mr. Nirav H. Patel
3.	Mrs. S. K. Menon	4.	Dr. Nisha I Chauhan
5.	Student Member (GS)		
13. PROSPECTUS & A.Y.CALENDER COMMITTEE			
1.	Dr. A R Jivani (Coordinator)	2.	Dr. Jasmin B Parmar
3.	Dr. N. B. Bhatt	4.	Miss. Nayna G. Kalsariya
14. DISCIPLINE COMMITTEE			
1.	Dr. B N Patel (Coordinator)	2.	Dr. P S Vyas
3.	Dr. V. B. Kataria	4.	Dr. H. B. Madhvani
5.	Dr. (Ms.) M. H. Patel	6.	Dr. Namrata R Umarigar
7.	Dr. Neha Rathod	8.	Dr. Mayuri Y. Barot
9.	Ku. Vanita M. Patel	10.	Student Member (10)
15. PERSONALITY DEVELOPMENT PROGRAMME			
1.	Dr. K. D. Patel (Coordinator)	2.	Dr M K Valand
3.	Mr. K. C. Raval	4.	Dr. Bhavesh D Dhorajiya
16. INTERNAL COMPLAINT COMMITTEE (ICC)			
1.	Ms. S.K.Menon (Coordinator)	2.	Dr. G. M. Patel
3.	Dr. P. M. Patel (Physics)	4.	Dr. Nikung Bhatt
17. HOSTEL (GIRLS) & L.R			
1.	Dr. (Ms.) M. H. Patel (Coordinator)	2.	Dr. Nayanaben Brahmabhatt
3.	Dr. Namrata R. Umarigar	4.	Dr. Iram I. Jadav (LR – I)
5.	Student Member (LR – II)	6.	Student Member (LR – I)
18. ANTIRAGGING			
1.	Dr. T. H. Patel (Coordinator)	2.	Dr. Namrata R Umarigar
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.	Mr. R. P. Solanki (Coordinator)	2.	Dr. Nalin K. Pagi
3.	Dr. Sunil M Galani	4.	Dr. Shailesh A. Bhanotar
21. BOYS HOSTEL			
1.	Dr. Vipul. B. Kataria (Coordinator)	2.	Mr. L. K. Chauhan
3.	Dr. Rajiv Bhatti	4.	Student Member
22. INNOVATION CLUB			
1.	Dr. Vipul. B. Kataria (Coordinator)	2.	Dr. Rajiv Bhatti
3.	Student Member	4.	Student Member

Various Departments Activity

Chemistry Department



I.C. Department



Maths Department



Various Departments Activity

Microbiology Department



Physics Department



Various Club Activity

Cultural Club



Debate Club



Nature Club



A visit to Ankleshwar to study pollution and control



A visit to the river bank at Bharuch by Nature club members

Science Club



Women Development Cell



Anand, Gujarat, India
HW20+3GB, Mota Bazaar, Vallabh Vidyanagar, Anand, Gujarat

Innovation Club



Activities of the Sports Club 2023-24



77th ANNUAL REPORT OF THE COLLEGE, YEAR 2023-24

Total Enrolment 2022-23

Semester	GIA (BSc)	IC(V)	BCA
I	425	15	100
III	377	29	68
V	402	86	43

Examination Results 2021-22

Program	Semester	S P Uni	College
BSc	II	64.01	68.54
	IV	62.40	72.54
	VI	69.69	89.28
BCA	II	73.37	69.51
	IV	75.84	69.49
	VI	89.00	90.91

UNIVERSITY GOLD MEDAL WINNERS

No	Name of the Student	Award	Subject	Semester
1	Jeban Maksud Ibrahim Natha	Dr. H. K. Patel Charutar Vidya Mandal Gold Medal	Physics	V & Vi
2	Nisarg Dilipbhai Sankhala	Kamdar Bhanuprashad Mohanlal Bhatt And Smt Jashodaben Bhanuprashad Bhatt Gold Plated Medal	Zoology	V & Vi
3	Parthkumar Shaileshkumar Makwana	Shri Kuberbhai Vrajbhai Patel Gold Plated Medal (Over All, All Students) Prin. N. D. Desai Gold Plated Medal	Mathematics Mathematics & Statistics)	V & Vi
4	Virenkumar Manojbhai Patel	Shri Babubhai Jashbhai Patel Gold Plated Medal	(Electronics)	V & Vi

**Everyone wishes to live a royal life, but this privilege is not with everyone.
It takes a royal attitude to live a Kingly life.**

GOLDEN JUBILEE FUND WINNERS

Awards of prizes of V. P. M. Golden Jubilee Fund for the Year 2023-24 on the basis of merit of University results of April 2023. Merit is based on total marks obtained in external theory only (without practicals) examination of Sardar Patel University.

Seat No.	NAME	SUBJECT	Total External marks obtained in the subject
F.Y.BSc 856	KRISHNA ARJUN ACHARI	Overall	GPE 145
S.Y.BSc 658	SAVAN RAMNIKBHAI PATORIYA (Golden Jub-Fund)	Overall	GPE 145
T.Y.BSc			
620	KETULKUMAR RAJESHBHAI VALAND Late Shri Himanshu Thakorbbhai Patel award First in Electronics at T.Y.B.Sc.	Electronics	GPE 73
1171	JEBAN MAKSUD IBRAHIM NATHA Late Smt. Santaben Kalidas Patel award First in Physics at T.Y.B.Sc	Physics	GPE 95
504	ROHIT NAGBHAI VAGH Shri.C.P. Narayanan award First in Chemistry (External Theory) at T.Y..B.Sc	Chemistry	GPE 92
508	SABBAKARIM A RASIDBHAI SHAIKH Late Dr.B.N.Mankad award T.Y.B.Sc Chemistry student first with External & Internal marks of Theory at S.P.Uni.	Chemistry	GPE 165
508	SABBAKARIM A RASIDBHAI SHAIKH Shri. Mahendrabhai. J.Patel award for] first position at S.Y. & TY.B.Sc. aggregate External marks Theory in Chemistry.	Chemistry	GPE 127
508	SABBAKARIM A RASIDBHAI SHAIKH Late Shri.Harish Jagannath Parab, Cash Prize for Highest Marks in Chemistry at T.Y.B.Sc.	Chemistry	GPE 165
802	SEJANBHAI SATTARBHAI VAHORA M/S. Overseas Silk Mills Ltd., Surat award First in Ind. Chemistry at T.Y.B.Sc.	Ind. Chemistry	GPE 86
1006	SHIVANIBEN RITESHBHAI PATEL Late Shri Hardik Harshadbhai Patel award First in Microbiology at T.Y.B.Sc.	Microbiology	GPE 82

1006	SHIVANIBEN RITESHBHAI PATEL Late Smt Minaxiben Dineshbhai Patel award first position at S.Y. & TY.B.Sc. aggregate External marks Theory in. Microbiology.	Microbiology	GPE 112
1006	SHIVANIBEN RITESHBHAI PATEL Dr. S.B.Desai award First in Microbiology at T.Y.B.Sc.	Microbiology	GPE 82
601	VEDANSHI VASANTBHAI SADHU Meenakshi Ammal award First in Comp.Science (External Theory) T.Y.B.Sc	Computer Science	GPE 86
601	VEDANSHI VASANTBHAI SADHU Smt. Hasuben Mahendrabhai patel award for First position at S.Y. & T.Y.B.Sc. aggregate External Theory marks in Computer Science	Computer Science	GPE 116
1082	PARTHKUMAR SHAILESHKUMAR MAKWANA Shri. Prakash Jashbhai Patel award First in Mathematics at T.Y.B.Sc.	Mathematics	GPE 99
658	SAVAN RAMNIKBHAI PATORIYA Smt. Dharmisthaben Yashvantkumar Patel award award for First position at S.Y.B.Sc. (SEM III & IV) External Theory marks in Mathematics	Mathematics	GPE 37
123	SAKSHI PRAVINBHAI VANPARIA (Patel Naranbhai Govindbhai & Gordhanbhai Laljibhai Patel award First in Botany at T.Y.B.Sc.)	Botany	GPE 85
1226	NISARG DILIPBHAI SANKHALA Late Radhakant Vishwakarma award first in Zoology at T.Y.B.Sc.	Zoology	GPE 93
7	PRITESH ALPESHBHAI PATEL (Golden Jub.Fund)	TY.B.C.A.	GPE 9.89
797	SHUBHAM BHARATBHAI VYAS (Golden Jub.Fund)	Ind Chemistry (voc)	GPE 159

A man sees in the world what he carries in his heart.

— **Johann Wolfgang Goethe, from “Faust**

No one can make you feel inferior without your consent.

— **Eleanor Roosevelt**

1. ACTIVITIES OF IQAC

- | | |
|--|------------------------|
| 1. AQAR submitted | 2. Applied for NIRF |
| 3. Applied for GSIRF | 4. AISHE was submitted |
| 5. Conducted Acculturation Program for New Faculties | |

2. STUDENTS' ACHIEVEMENTS

Physics

1. Shailesh Bachubhai Rathva of B.Sc. Sem2 secured 1st position in Poster presentation Competition on the topic Role of India in Space Science in the Two Days Workshop on Astronomy and Space Science jointly organized by Physics Department, VP & RPTP Science College, Vallabh Vidyanagar & Astronomy Club, Department of Physics, SPU, Vallabh Vidyanagar on 2-3 February, 2024
2. Rahulbhai Vijaybhai Padhiyar of B.Sc. Sem2 secured 1st position in Poster presentation Competition on the topic Astronomy and Cosmology in Two Days Workshop on Astronomy and Space Science jointly organized by Physics Department, VP & RPTP Science College, Vallabh Vidyanagar & Astronomy Club, Department of Physics, SPU, Vallabh Vidyanagar on 2-3 February, 2024
3. Dhvanisha Nimeshbhai Mehta of B Sc Sem4 secured 2nd position in Poster presentation Competition on the topic Role of India in Space Science in Two Days Workshop on Astronomy and Space Science jointly organized by Physics Department, VP & RPTP Science College, Vallabh Vidyanagar & Astronomy Club, Department of Physics, SPU, Vallabh Vidyanagar on 2-3 February, 2024
4. Krishna Arjun Achari of B.Sc. Sem4 secured 1st position in PPT Presentation Competition on the topic Indian Solar Mission: Aditya L-1 & Mission Chandra Yaan in Two Days Workshop on Astronomy and Space Science jointly organized by Physics Department, VP & RPTP Science College, Vallabh Vidyanagar & Astronomy Club, Department of Physics, SPU, Vallabh Vidyanagar on 2-3 February, 2024
5. Jaimit Kamleshbhai Rana of B.Sc. Sem4 secured 2nd position in PPT Presentation Competition on the topic Indian Solar Mission: Aditya L-1 & Mission Chandra Yaan in Two Days Workshop on Astronomy and Space Science jointly organized by Physics Department, VP & RPTP Science College, Vallabh Vidyanagar & Astronomy Club, Department of Physics, SPU, Vallabh Vidyanagar on 2-3 February, 2024
6. Krunal Pareshbhai Darbar of B.Sc. Sem2 secured 1st position in Physics Quiz Competition in Two Days Workshop on Astronomy and Space Science jointly organized by Physics Department, VP & RPTP Science College, Vallabh Vidyanagar & Astronomy Club, Department of Physics, SPU, Vallabh Vidyanagar on 2-3 February, 2024
7. Vinayak Manojkumar Vadhera of B.Sc. Sem6 secured 2nd position in Physics Quiz Competition in Two Days Workshop on Astronomy and Space Science jointly organized by Physics Department, VP & RPTP Science College, Vallabh Vidyanagar & Astronomy Club, Department of Physics, SPU, Vallabh Vidyanagar on 2-3 February, 2024

8. Vinayak Manojkumar Vadhera has participated in one day seminar on “Fostering Research Aptitude Among Students” organized by Electronic department of V. P. & R. P. T. P. Science College, Vallabh Vidhyanagar, on 2nd Oct. 2023.
9. Jaimit Kamleshbhai Rana of B.Sc. Sem4 secured 1st position in Science Fest-2024 in working model presentation Science Clun of VP & RPTP Science College, Vallabh Vidyanagar on 9th February, 2024
10. Dhvanisha Nimeshbhai Mehta of B.Sc Sem4 secured 2nd position in Science Fest-2024 in working model presentation Science Clun of VP & RPTP Science College, Vallabh Vidyanagar on 9th February, 2024
11. Dhvanisha Nimeshbhai Mehta of B Sc Sem4 participated in the Two days workshop on MTTTS programme-MMTS Overture for Mathematics undergraduate students organized by Mathematics Department of V. P. & R. P. T. P. Science College, Vallabh Vidhyanagar, on 8-9, February, 2024

Zoology

- * Ishan Vyas student from Zoology Department stood first in Glimmering 2024 organised by SSIP Navdhara.

Computer Science

- * Vendanshi Vasantbhai Sadhu Awarded Golden Jubiles Awards 2022-23 in Computer Science Subject.
- * Total 15 students participated in Science Fest-2024 There are 5 different projects present by students.
- * Akshay Purohit and Sohankumar B Shah won 1st prize-Computer Science in Science Fest-2024.
- * Arayan Usadadiya and Himel Gohil won 2nd prize-Computer Science in Science Fest-2024.

Mathematics & Statistics Dept.

Sr.No.	Name of student	Exam passed	Roll Number
1	Patel Nilkumar Harshadbhai	TOEFL	89
2	Manan Anilbhai Vaishnav	JAM	CY205F160/CUET PG 2023-GJ02010007
3	Savan Patoriya	JAM	M129C97
4	Yogi Joshi	JAM	M110G13
5	Vahora Sanya Yasinbhai	IELTS	NA
6	Rathva Malsingbhai	GSET	300795

“Forgiveness is an act of willingness not an act of will.”

3. Number of students enrolled in Certificate/Add-on programs as against the total number of students during the year

Name of Add on/Certificate programs offered	Course Code (if any)	Year of offering	No. of times offered during the same year	Duration of course	Number of students enrolled in the year	Number of Students completing the course in the year
Textile Dyeing and Printing by Dr. Yogesh Vadwala	---	2023-24	one	30 hours	18	18
Manufacturing of Domestic Items by Dr. H. R. Maradiya	---	2023-24	one	30 hours	15	15
Elementary Course in La TeX by Dr.S.A.Bhanotar	---	2023-24	one	30 hours	10	10

4. Number of Seminars/conferences/workshops/attended/conducted by the institution/faculty during the year :

Year	Name of the	Number of workshop/ seminar	Place Participants	Duration	Link to the Activity report on the website
2023-24	Scientific Proposal Writing	Dr. Darshita Vaja		8/11/2023	
2023-24	Scientific Proposal Writing	Dr. B.C. Patel		8/11/2023	
2023-24	Content Based language Teaching: Implications for ESL in India	Dr C.R. Gurjar	School of Distance Education, Uni. Of Kerala	23/2/2023	

2023-24	Online Symposium "Transcending Boundaries - Fostering an Open Research-Teaching Dialogue in English Language Teaching (ELT)"	Dr. Darshana Acharya	Manchester Centre for Research in Linguistics Manchester Metropolitan University, UK		
2023-24	MTTS Overture Programme by Dr. Vikram Aithal from Inst of Chemical Technology, Mumbai & Dr. Anant Narayan Hariharan from IIT Bombay,	52	2 days		
2023-24	Workshop on visualization of Mathematics	61	1 day		

5. Number of papers published per teacher in the Journals notified on UGC website during the year

Title of Paper	Name of the author/s	Department of the Teacher	Name of Journal	Year of publication	ISSN Number
Recent Advances in Biginelli Reaction using Nanoparticles, Zeolites and Metal compounds as Catalyst: A concise review, Accepted,	Dr.B.C.Dixit	Chemistry	Letters in Organic Chemistry, Bentham Science Publishers	2024	ISSN (print): 1570-1786 ISSN (Online): 1875-6255
Design, Synthesis, and Molecular Docking Analysis of Novel Benzo[4,5]imidazo[1,2-a]pyrimidine Hybrids Targeting Plasmodium falciparum DHFR: A Comprehensive	Dr. B. C. Dixit and Dr.V.B. Kataria	Chemistry	Journal of Molecular Structure	Volume 1299, 5 March 2024 137137	ISSN 0022-2860

In Silico and Biological Study					
Recent Advances in Biginelli Reaction using Nanoparticles, Zeolites and Metal compounds as Catalyst: A concise review, Accepted,	Dr. V B Kataria	Chemistry	Letters in Organic Chemistry, Bentham Science Publishers	Accepted February, 2024	ISSN (print): 1570-1786 ISSN (Online): 1875-6255
Synthesis of mesoporous SiO ₂ -CeO ₂ hybrid nanostructures with high catalytic activity for transamidation	S Manu Sharma, Hari krishnan, Umesh Kumar Gaur and Ashok K. Ganguli	Physics	RSC Adv.	2023	2446-2069
Manifold enhancement in the near-field and SERS efficiency of all-sputter grown Agnanoparticles on Al-film based mirror structures Physics	Mahesh Saini Vivek Pachchigar, Umesh Kumar Gaur, Sooraj K.P. and Mukesh Ranjan	Physics	Surfaces and Interfaces	2023	2468-0230
Effectiveness of intervention Program for Class IX students in Rural Schools of Gujarat	Dr C R Gurjar (Co author)	English	Ideal Research. - An International Peer Reviewd E Journal	2023	ISSN2454-857X Vol 9. Issue-1
Exploration of novel analytical solutions of boundary layer equation via the modified sumudu transform	Shailesh A. Bhanotar	Department of Mathematics & Statistics	Examples and Counterexamples	2024	2666-657X
Special Operation-Pro-addition (†) On Pythagorean triplets	Shailesh A. Bhanotar	Department of Mathematics & Statistics	Palestine Journal of Mathematics	2023	2219-5688

Department of Mathematics & Statistics					
Exploration of novel iterative solution of nonlinear partial fractional differential equations with mixed derivatives via Adomian multi Sumudu transform	Shailesh. A. Bhanotar, Seenith Sivasundaram	Department of Mathematics & Statistic	Nonlinear studies	2023	1359-8678
A class of orthogonal polynomials associated with the Legendre polynomials	Krupanshi bahen N.Patel and B.I.Dave	Mathematics	Applied Mathematics E-Notes	2023	1607-2510

6. Number of books and chapters in edited volumes/books published and papers: published in national/ international conference proceedings per teacher during the year :

No	Faculty	Title of the book/ chapters published	National / International	Year of publication	ISBN/ISSN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
1	Dr. Umesh Kumar Gaur	Chapter 3. Biogenic Synthesis of Nano-Fertilizers and Nano-Pesticides	International	2024		VP & RPTP SCIENCE COLLEGE VV NAGAR	Nova Science, USA
2	Dr. Nikunj Bhatt	Orb-Web Weaver	International	2023	978-93-5910-093-7		
3	Dr. Nikunj Bhatt	The Major Invertebrates	International	2023			

7. Number of students participating in extension activities during the year:

Name of the activity	Organizing unit/ agency/ collaborating agency	Name of the scheme	Year of the activity	Number of students participated in such activities
NSS	Government of India	PRE RDC	NOV 2023	Jagriti Shukla
NSS	Government of India	RDC	JAN 2024	Jagriti Shukla
NSS	Government of Gujarat	Yuva samwad	29 feb 2024	Jagriti Shukla
NSS	Government of India	Youth parliament	9 march 2024	Jagriti Shukla
Science club activity 2024	V P & R P T P Science College	Science fest	9 th February 2024	18 students participated (03 secured second prize) Devanshi Goswami Draraben S Prajapati Divyaben Mahida
34 th Gujarat Integrated Bio Network	P M Patel Institute of P G Studies and Research in Science, Anand		18 Feb 2024	Shiza Mansuri

8. Capacity building and skills enhancement initiatives taken by the institution include the following.

1. Soft skills, 2. Language and communication skills,
3. Life skills (Yoga, physical fitness, health and hygiene), 4. ICT/computing skills

Name of the capability enhancement program	Date of implementation (DD-MM-YYYY)	Number of students enrolled	Name of the agencies/consultants involved with contact details (if any)
Finishing School Project Functional English & Life skills	30 th January – 20 th February 2024	19	KCG, Ahmedabad
Bhartiya Chhatra sansad	10- 13 th January 2024	03	World Peace University, Pune



9. Number of students benefitted by guidance for competitive examinations and career counselling offered by the Institution during the year :

Name of the Activity conducted by the HEI to offer guidance for competitive examinations offered by the institution during the last five years		Name of the Activity conducted by the HEI to offer guidance for career counselling offered by the institution during the last five years		Number of students placed through campus placement
Name of the Activity	Number of students attended / participated	Details of career counselling	Number of students attended / participated	----
How to prepare for Public Service Exams	74	Scope and Career opportunities after B.Sc. (Mathematics)	56	----

10. Number of teachers undergoing online/face-to-face Faculty development Programmes (FDP) during the year :

Almost all teachers undergone online NEP 2020 Orientation & Sensitization programme Under Malaviya Mission Teacher Training Programme during month of January to April 2024

11. INDUSTRIAL EDUCATIONAL TOURS/ TRAINING FOR STUDENTS/FIELD PROJECTS:

Industrial Chemistry

- * Industrial tour at Maruti Polymers, Ravadapura, Anand, Gujarat, attended by 65 students of T.Y.B.Sc. Chemistry, along with 03 faculties members Dr. K. D. Patel, Dr. Gita Patel, & Dr. Trupti Darji

Microbiology

- * 76 students and 3 staff members (Ms. S. K. Menon, Mr. S. A. Shaikh and Ms. V. M. Patel) visited Amul Dairy Chocolate Factory on 28 December 2023.
- * 46 students of IV and VI semesters and 2 staff members (Ms. S. K. Menon and Mr. A. A. Shukla) visited waste water treatment plant at Ankleshwar and Narmada river front at Bharuch on 20 February 2024.

Botany

- * T.Y. Botany students visited Ayurvedic college medicinal plant garden on 13th Feb along with Dr. N. H. Brahmbhatt.
- * Four students of T.Y. Botany attended National workshops on Molecular, Biochemical, Plant tissue culture and analytical based techniques (12 Jan to 22nd Jan 2024) organized by an Patel anand and DGSBTM, DST, GOG, Gandhinagar.
- * Bhakti, Tanvi, Vidhi and Jaydev attended the same.
- * S.Y. and T.Y. B.Sc students participated in Science Fest organized by the college and S.Y. student group won second prize in biological section.

- * Students of Botany of V.P. & R.P.T.P. Science College, visited Reliance
- * PDC (Plasticulture Development Centre) at Nandesari on Thursday, 20th July 2023. It is the first Indian PDC and was established in 1987. The PDC covers a whopping area of about 22 acres. The entire establishment is managed by 15 staff members. At the PDC, they utilize plastic for more than 25 scientific applications.

Zoology

- * TYBSc students and a Faculty participated in District level Bird Census 16/12/2023
- * SY B.Sc and TY BSc students went Study Tour to Ligada and Samli forest date 4/8/2023
- * Students undertook a Nature Education study Under life mission at GEER foundation Gandhinagar 7-8/2/2024

Computer Science

- * Computer Science Department arranged industrial visit at “Brainerhub Solutions” on 28th February 2024. Total 55 students and 3 faculty members visited the IT Company.
- * The Students also visited the Science City

12. ACHIEVEMENTS OF FACULTY

- * Dr. A. R. Jivani has been honored with the Gujarat Science Academy (GSA) Best Teacher Award in the field of Undergraduate Physical Science for the academic year 2021-22.

13. Ph.D STUDENTS REGISTERED/ BY THE FACULTY/ Ph.D Completed

Guide	Name of the Student	Dept	Reg No & Date	Status
B. C. Dixit	Bhakti Bhatt	Chemistry	222054 & 20/07/2023	Ongoing
Dr Nikunj B Bhatt	Divyangi Thakar	Zoology	----	Completed
Dr Charudutt Gurjar	Bhavin Mahida	ELT	---	Completed

14. FACULTY AS GUEST SPEAKERS/VISITING FACULTY/RESOURCE PERSON :

- * Dr. B. C. Dixit delivered a guest lecturer [January, 2024] at Shri R. K. Parikh Arts and Science College, Petlad.
- * Dr.B.C. Dixit delivered a lecturer as a resource person 18/12/2023, on Effectiveness of online Education organized by Mata Jijabai Govt. Girls P.G. College, [autonomous] Moti Tabela, Indore.
- * Dr. Yogesh Vadwala invited as a visiting faculty at S. M. Patel College of home Science for M.Sc. DFSM [IGNOU] Biochemistry subject.
- * Dr. Nalin Pagi delivered a talk on “Hydroponics: The Soilless Culture” held on December 27th, 2023 at Sardar Patel Institute of Applied Science, Bakrol (SPIAS) managed by Tirupati Foundation Trust- 388 315.

- * Dr J. P Patel reviewed papers of 3rd International Conference on Women in Science and Technology at BVM 28-30 December, 2023.
- * Dr. Jayesh J. Gamar invited as guest speaker at NPCCSM, Kadi BCA College, for seminar with title "Innovative Solutions in BCA Projects using .NET" on 07/03/2024 for BCA sem-6 students.

VISITING FACULTY

Dr. Shailesh A. Bhanotar	A.R. College of Pharmacy, V.V.Nagar	Visiting Faculty	Remedial Mathematics	Six Months
Ms. Krupanshi N. Patel	B.J.Vanijya Mahavidyalaya, V.V.Nagar	Visiting Faculty	Business Mathematics	Six Months

15. WORKSHOPS/SEMINARS/ FDPs/ Webinars ATTENDED

Physics

- * Dr. M. Y. Barot attended Faculty Development Program - Revist of the Basic through Feynman Lecture Series -1 Arranged by Department of Physics, P.D.Patel institute of Applied Sciences, CHARUSAT.
- * Dr. M. Y. Barot attended NEP 2020 Orientation & Sanitization programs from 15 Jan 2024-25th Jan 2024 arranged by Malaviya Mission Teacher Training Centre.
- * Ms Chetana Patel Attended "5th Online NEP Orientation & Sensitization Programme (19-02-2024 to 01-03-2024)" organized by Malaviya Mission Teacher Training Programme, UGC, S. P. University Center.
- * Dr S Bhattacharjee has successfully completed "5th NEP Orientation & Sensitization Programme UGC MMTTC SPU"

Microbiology

- 1) Asma A Saiyad participated in poster making competition and Arvah Saiyad took part in elocution competition organized by C. C. Patel Community science center on 26/07/2023 at N. H. Patel College.
Asma Saiyad won the 3rd position in poster making competition.
- 2) 10 Students and two faculty members (Ms. S.K.Menon and Dr. Neha Rathod) attended the program Narayani Sangam on 8th October 2023 at Vadtal.
- 3) Priya Giri and Tisha Patel of V semester attended one day seminar on Shiksha Se Samruddhi on 3rd October 2023 held at GCET Auditorium.
- 4) Rangoli competition sponsored by MBSI and organized by Microbiology department of V.P.& R.P.T.P. Science College was held on 12/10/2023.
- 5) 16 students and two faculty members of Microbiology department, Ms.S.K.Menon and Ms. V. M. Patel attended a state level competition for seminar, article writing, poster presentation, scientoon, quiz jointly organized by J. & J. College of Science, Nadiad and P. M. Patel institution, Anand Cosponsored by GIBiON on 18th Feb

2024. Out of 8 participants in different events, Shiza mansuri of IV semester won 3rd Prize in S.Y B.Sc seminar.

- 6) 24 students participated in science fest organized by our college on 9th Feb 2024. 1st prize was won by the students of Microbiology namely Trisha Patel, Priya Giri, Khushil and Palak for a model making of Biogas plant under the category of life sciences.
- 7) An intracollegiate poster competition jointly organized on 31st January 2024 by Microbiology department of our college in collaboration of Microbiology society of India and GSBTM. The 1st, 2nd and 3rd prize winners were Prachi Thakkar, Shruti Brahmbhatt and Taksh Vyas respectively.
- 8) Dr. Neha B. Rathod of Mathematics Dept attended a workshop on Introduction to Mathematica & Algebraic Computations in General Relativity from 29-05-2023 to 04-06-2023 organized by the Department of Mathematics & Statistics, Sardar Patel University

16. GUEST TALKS ARRANGED

Chemistry

1. Dr. Manish P. Patel, Professor of Chemistry, Department of Chemistry, Sardar Patel University, Vallabh Vidyanagar.
2. Analytical Chemistry-separation techniques” for the students of B.Sc. Chemistry, Sem-V on 12/08/2023, Saturday during 10.30 a.m. to 11.30 a.m.
3. Dr. Sweta Joshi, N. V. Science college, Department of Chemistry, Sardar Patel University, Vallabh Vidyanagar. On stereochemistry Wednesday, 31/01/2024.
4. Dr. D. K. Raval, Retired Professor of Chemistry, Department of Chemistry, Sardar Patel University, Vallabh Vidyanagar. On stereochemistry 15/02/2024

Physics

- * Prof. Milind P. Deshpande, Department of Physics, Sardar Patel University, Vallabh Vidyanagar, delivered talk on “Nanoscience: Small but beautiful” on 29th December, 2023.
- * Following speakers delivered talk in Two Days Workshop on Astronomy and Space Science jointly organized by Physics Department, VP & RPTP Science College, Vallabh Vidyanagar & Astronomy Club, Department of Physics, SPU, Vallabh Vidyanagar on 2-3 February, 2024
- * Dr. Foram Milind Joshi, Assistant Professor, Department of Applied Science and Humanities, MBIT, CVM University, New Vallabh Vidyanagar, on 2nd February, 2024.
- * Prof B. Y. Thakore, Department of Physics, Sardar Patel University, Vallabh Vidyanagar, delivered talk on “Basic Observational Astronomy” on 2nd February, 2024
- * Shri H. B. Pandya, Scientist, Institute for Plasma Research (IPR), Bhat, Near Indira Bridge, Gandhinagar, delivered talk on “Role of Physicist in Fusion Research” on 3rd February, 2024

- * Shri R J Bhanderi, Scientist, Indian Space Research Organization (ISRO), Ahmedabad delivered talk on “Role of Physicist in Fusion Research” on 3rd February, 2024

Microbiology

- * A talk on “Role of probiotics in non-dairy functional food: A focus on human health” was delivered by Dr. Shilpa Gupte on 23 January 2024

17. Miscellaneous:

- * 50 female students participated in Karate training programme arranged by the women development cell at the college campus during 5 February 2024 to 9 February 2024 under the trainer Mr. Chetan Fumakiya of Pratibha Defence Academy.

Physics

- * Dr A R Jivani has working as a coordinator of Two Days Workshop on Astronomy and Space Science jointly organized by Physics Department, VP & RPTP Science College, Vallabh Vidyanagar & Astronomy Club, Department of Physics, SPU, Vallabh Vidyanagar on 2-3 February, 2024

Zoology

- * World Wetland Day was Celebration in collaboration with UPL Saras Conservation 2/2/2024.
- * Malaria Awareness program collaboration with Health Department Anand 20/7/2024.
- * Wild life week celebration collaboration with Gujarat Forest Department 7/10/2023.
- * The Dept. collaborated for Annual Saras count Under UPL Saras conservation Project 21/6/2023.

Mathematics & Statistics

- * The department organized Mathematical Modelling Competition, Quiz Competition and Schevanger Hunt Competition on National Mathematics Day celebration, 22th Dec. 2023

Retirement:

- * Mr. Piyushbhai A Lashkari I/C Principal (Assoc Prof. Head of Electronics)
- * Rajubhai Tirthokar (peon) Botany-self finance



NAME OF EX-OFFICIO AND STUDENT SECRETARIES AT VARIOUS CLUBS.

MR. P.A. LASKARI (PRESIDENT)

DR. P M PATEL (VICE-PRESIDENT)

DR. NIKUNJBHAI BHATT (IQAC COORDINATOR)

PORT FOLIO	NAME OF EX-OFFICIO	NAME OF STUDENT SECRETARIES
CULTURAL CLUB	MR. K. C. RAVAL	KINJAL MAHIDA
FINE ARTS CLUB	MR. L. K. CHAUHAN	NITYA PANCHAL
DEBATE CLUB	DR. C. R. GURJAR	DONA VIEYRA
NATURE CLUB	MS. M. K. PATEL	PRIYA GIRI
LITERARY CLUB	DR. R. H. PARABDR. YOGESH VADWALA	BIREN CHAUDHARY
SCIENCE CLUB	DR. T. H. PATEL	SHIVANI PANDEY
SPORTS CLUB	DR. J. K. CHAUHAN	MANAS JOTVAVANDANA DESHANI
NCC	MAJ. DR. M. M. MOREKAR	ABHIRAJSHINH THAKURSIDDHI SOLANKI
NSS	DR. RAJIV BHATTMR. A. K. PATEL	DHEY BHATT PALAK PATEL

STUDENTS' CENTRAL COMMITTEE A.Y. 2023 24. : LIST OF LR's & CR's

Sr. No.	Name of Student	Class-Div & Roll No	Position	Representing
1	Sakshi C Patel	CHEM-295	LR	ALL FY Girls
2	Dipkumar A C	CHEM-135	CR	FY- Chem
3	Farhan A K	PHY-196	CR	FY-Phy/Maths/CS/Ele
4	Shivangi M S	MICRO-390	CR	FY-Micro/Bot/Zoo
	Virendra V T	ZOO-478	CR	
5	Kaivalkumar A V	IC-71	CR	FY-IC/ICV
	S Y B Sc			
1	Krishna A Achari	PHY-155	LR	SY GIRLS
2	Arya M Barot	BOT-523	CR	SY-MIC/BOT/ZOO
3	Esha V Soni	CHEM-24	CR	SY-CHE/IC
4	Saniya K Sharma	PHY-162	CR	SY-PH/MS/CS/EL/ST
5	Aayushkumar Bhoi	ICV-472	CR	SY IC(V)
	T Y B Sc			
1	Hitashikumari V G	MATHS-154	LR	TY-GIRLS
2	Savan R Patoriya	MATHS-176	GS	COLLEGE
3	Dhruvkumar H P	MATHS-147	CR	TY-PH/MAT/CS/EL
3	Abhijitsinh T T	CHEM-01	CR	TY-CH/IC
4	Diya N Patel	MICRO-419	CR	TY-MI/BIO/ZOO
5	Akishitkumar C D	ICV-561	CR	TY-ICV

REPORT OF STUDENT CENTRAL COMMITTEE YEAR : 2023-2024

President : Mr. P. A. Lashkari

Vice President : Dr. P. M. Patel

1. SCIENCE CLUB

Ex-Officio : Mr. Nirav H. Patel

Student Secretary : Shivani J. Pandey

Name of the Event	Participants	Level /organizer	Date	Winners
Science Fest – 2024	140+ Students take part in the exhibition	College Level	09/02/2024	List of winners is attached at the end

The Science Fest 2024 at V. P. & R. P. T. P. Science College showcased more than 40 innovative projects from 150 enthusiastic students on February 9th, 2024. Distinguished guests Dr. S. G. Patel and Mr. R. C. Talati inaugurated the event, emphasizing its significance in fostering scientific curiosity. Projects spanned diverse fields, attracting over 500 school students. Kudos to the Science Club team led by Ex. Officio Mr. Nirav H. Patel. The event highlighted V. P. & R. P. T. P. Science College's commitment to scientific inquiry and innovation

Winner List

Sr. No	Name of Student	Subject Category
1.	1. Jaimit Rana	Won 1st prize – Physical Science
2.	1. Dhvanisha Mehta	Won 2nd prize – Physical Science
3.	1. Priya Giri	Won 1st prize – Biological Science
	2. Tisha Patel	
	3. Khushil Suthar	
	4. Palak Thakkar	
4.	1. Kotadiya Drasti M.	Won 2nd prize – Biological Science
	2. Shah Kesha M.	
	3. Parvadiya Satyam V.	

5.	1. Bhavesh A. Thakor	Won 1st prize – Chemical Science
	2. Dhaval A. Parmar	
	3. Jeel M. Suthar	
6.	1. Devanshi J. Goswami	Won 2nd prize – Chemical Science
	2. Dharaben S. Prajapati	
	3. Divyaben N. Mahida	
7.	1. Akshay Purohit	Won 1st prize – Computer Science
	2. Sohankumar B. Shah	
8.	1. Arayan Usadadiya	Won 2nd prize – Computer Science
	2. Himil Gohil	
9.	1. Karishma F. Pathan	Won 1st prize – Mathematical Science
	2. Thakor Mitesh I.	
10.	1. Nidhi S. Prajapati	Won 2nd prize – Mathematical Science
	2. Modi Dhyanish P.	

2. CULTURAL CLUB

Ex-Officio : Mr. Kamlesh Raval

Student Secretary : KINJAL MAHIDA

Date: 06TH March 2024

The Ex-officio of Cultural club of V.P & R.P.T.P. Science College is Mr. Kamlesh Raval of Electronics Department.

Ms. KINJAL MAHIDA (T.Y. MICROBIOLOGY) is elected as secretary and Mr. SANGAM PANDYA (SY BCA) is elected as joint secretary of the Student Central Committee 2023-2024.

During the academic year 2023-2024 the club has motivated the students of the institute to participate in various cultural events organized by Our College as well as other educational and non government organizations.

Independence Day Celebration (15th August 2023):-

- * In association with NCC Club and student's central committee the club has organized Independent day celebration with flag hoisting followed by cultural presentations from the students including Group Songs and Dance. More than 200 students remain present in the event and 16 took part in the cultural program.
- * Independence Day started with "Vande Mataram" song. After that flag hosting done by Principal Sir of our collage Mr. Piyush lashkari sir Principal Sir gave verbal greetings on this day. All the teaching & non-teaching staff was present during the programmed.

- * A cultural program was then organized by the Cultural Club as part of that three patriotic songs, one dance and an act related to our flag were performed. The entire program was conducted by the anchors of the Cultural Club.
- * Charmi Patel and Kajal narrated the function.
- * Ruturaj Gadhvi and Sangam pandya presented patriotic songs.
- * Jagruti Sukla and team of 05 students have presented Dance.

Navratri Celebration (Rum Jhum Norta) (22nd October 2023) :

- * The program "Rum Jhum Norta" was organized by the club as celebration of the dance festival.
- * More than 450 students took part in the event and prizes for the best dancing and best dressing are given to the participants.

Sardar Patel University Youth Festival (20th-23rd September-2023) :-

- * 01 student participated in Elocution event of the Intercollegiate Youth Festival

Talent Hunt Program (11th March 2024) :-

- * Talent hunt competition is organized to provide opportunity to the students to show their cultural tone.
- * 70 students took part in dance competition, 8 students in singing competition, 18 students in Cultural ramp walk and 6 students participated in Anchoring competition.

3. NATURE CLUB

Ex-Officio : Mrs. S. K. Menon

Student Secretary : PRIYA GIRI

Ms R H Solanki

1. 46 students of the college accompanied by Ms. S. K. Menon visited waste water treatment plant at Ankleshwar.
2. They also went to the Narmada river front at Bharuch on 20 February 2024.

4. LITERARY CLUB

Ex-Officio : Dr. R. H. Parab

Student Secretary : Biren Chaudhary

Co-editor : Dr. Yogesh Vadvla

Sr.No	Event Name And Venue	Date	No. of Participants
1.	Thought for today, Information of Scientists, Various Festivals and National & International Days celebration on social media	Everyday	05

5. NATIONAL CADET CORPS (SENIOR DIVISION) (BOYS)

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

Student Secretary: ABHIRAJ SINH THAKUR

The annual report for the NCC (SENIOR DIVISION) activities of V.P. & R.P.T.P. SCIENCE COLLEGE, VALLABH VIDYANAGAR during the academic year of 2023-2024 is as given under.

At the beginning of the year 50 boys have been enrolled in First year in NCC. Year wise strength is as given below.

FIRST YEAR IN NCC	:	26
SECOND YEAR IN NCC	:	34
THIRD YEAR IN NCC	:	50
TOTAL	:	110

**During the academic year of 2022-2023
NCC cadets have attended various camps as given below.**

SR NO.	CAMP	PLACE	NO. OF NCC CADETS	DURATION
1	ARMY ATTACHMENT CAMP	GANDHINGAR	04	29 MAY – 10 JUNE, 2023
2	CATC CAMP (TSC)	KATHLAL	02	13 – 22 JUNE, 2023
3	ROCK CLIMBING AND TREKKING	PITHORAGARH (UTTARAKHAN)	01	18 – 23 JUNE, 2023
4	CATC CAMP	THAMNA	48	08 – 17 SEPTEMBER, 2023
5	CATC CAMP	THAMNA	01	26 OCT – 04 NOV, 2023
6	RDC (IGC) CAMP	AHMEDABAD	03	31 OCT – 09 NOV, 2023
7	PRE RDC – I CAMP	AHMEDABAD	01	16 -25 NOVEMBER, 2023
8	ADVANCE LEADERSHIP CAMP	AMRAVATI	03	10 – 21 JANUARY, 2024
9	ALL INDIA ADVENTURE COURSE (BASIC SKIING COURSE)	SONAMARG (KASNIR)	01	22 FEB – 06 MARCH, 2024

NCC officer MAJOR Dr. M.M.MOREKAR attended the following NCC camps.

SR.NO.	CAMP	PLACE	DURATION
1	CATC CAMP	THAMNA	08 –17 SEPTEMBER, 2023

- * NCC cadets along with NCC officer Major Dr. M.M.MOREKAR have participated in INTERNATIONAL DAY OF YOGA on 21ST june, 2023 at Shastri Maidan, VALLABH VIDYANAGAR.
- * AS a part of celebration of KARGIL VIJAY DIWAS 05 NCC Cadets have donated blood in Blood Donation, and 02 NCC Cadets participated in Poster making competition on 25 July, 2022.

- * NCC cadets along with NCC officer Major Dr. M.M.MOREKAR have celebrated INDEPENDENCE DAY on 15th AUGUST 2022 at V.P. & R.P.T.P.SCIENCE COLLEGE, VALLABH VIDYANAGAR and also at CHARUTAR VIDYA MANDAL, VALLABH VIDYANAGAR.
- * LCPL PANDYA ADITYA DIPAKBHAI secured FIRST POSITION in POSTER MAKING COMPETITION in CATC CAMP, THAMNA (08 – 17 SEPTEMBER, 2023).
- * SGT THAKOR MITESHBHAI INDRAVADAN secured SECOND POSITION in DEBATE COMPETITION in CATC CAMP, THAMNA (08 – 17 SEPTEMBER, 2023).
- * CDT RATHOD HARSHKUMAR MELABHAI secured SECOND POSITION in FIRING COMPETITION in CATC CAMP, THAMNA (08 – 17 SEPTEMBER, 2023).
- * UO RATHOD JAYDEVSINH RAJENDRASINH secured FIRST POSITION in OVERALL BEST PERFORMNCE in CATC CAMP, THAMNA (08 – 17 SEPTEMBER, 2023).
- * CDT VAJA HIMANSHUKUMAR RAMESHBHAI secured FIRST POSITION in ADMINISTRATIVE DUTY in CATC CAMP, THAMNA (08 – 17 SEPTEMBER, 2023).
- * CDT RATHOD HARSHKUMAR MELABHAI secured SECOND POSITION in FIRING COMPETITION in CATC CAMP, THAMNA (08 – 17 SEPTEMBER, 2023).
- * CPL PAL MANISH RAMKISHOR FIRST POSITION in FIRING COMPETITION in CATC CAMP, THAMNA (26 OCT – 04 NOV, 2023).
- * SUO THAKOR ABHIRAJ SINH JAYDIPSINH attended ALL INDIA ADVENTURE COURSE (BASIC SKIING COURSE) at SONAMARG (KASNIR) from 22 FEB – 06 MARCH, 2024 organised by JAWAHAR INSTITUTE OF MOUNTAINEERING AND WINTER SPORTS, NUNWAN, PAHALGAM.
- * NCC cadets along with NCC officer Major Dr. M.M.MOREKAR have celebrated REPUBLIC DAY on 26th JANUARY, 2024 at Shastri Maidan, VALLABH VIDYANAGAR. NCC Cadets are participated in SAMMAN GUARD and REPUBLIC DAY MARCH PAST.

For the academic year 2023-2024 the following NCC Cadet have been awarded as,

BEST NCC CADET : LCPL SUNAVIYA RITESHKUMAR AJAYSINH
(B.Sc. Semester VI Roll No.279)



6. NATIONAL CADET CORPS (SENIOR DIVISION)(GIRLS)

Ex-Officio: Dr. Mayuri Barot

Student Secretary : SIDDHI SOLANKI

Details of the Activities

Name of the Event	Participants	Level /organizer	Place	Date	Winners
AITSC	01	NATIONAL	DELHI	SEPT 2023	PRACHI
ARMY ATT. CAMP	02	NATIONAL	GANDHINAGAR	JUNE 2023	AYAN PALAK
EBSB CAMP	03	NATIONAL	AHMEDABAD	SEP 2022 JAN 2024	SIDDHI DISHA PRANJAL
SNIC	01	NATIONAL	RAJPIPLA	OCT 2023	AYAN
RCTC	01	NATIONAL	AJMER	NOV 2022	PRACHI
CATC	25		THAMNA	OCT 2023	-
YOGA DAY	ALL CADETS		SHASTI MAIDAN	JUNE 2023	
GUARD OF HONOR	02		NCC GR. HQ. VVN	AUG 2023	SIDDHI AYAN
CPR TRAINING	ALL CADETS		KARAMSHAD	JAN 2023	
CAMPUS CLEANING	ALL CADETS		V.P. SCIENCE COLLEGE	NOV 2023	
REPUBLIC DAY	ALL CADETS		V.P. SCIENCE COLLEGE	JAN 2024	
INDEPENDENCE DAY	ALL CADETS		V.P. SCIENCE COLLEGE	AUG 2023	
BASIC SELF DEFENCE COURSE	ALL CADETS		V.P. SCIENCE COLLEGE	FEB 2024	

7. NATIONAL SERVICE SCHEME

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

Student Secretary: DHEY BHATT & PALAK PATEL

Throughout the year, the NSS unit of our college actively engaged students in various social activity and enviornmentalinitativites, promoting community service, patriotism, and sustainable development.

* **Tree Plantation (07/08/23)**

Led by an ex-army man, the NSS Unit kickstarted the year with a tree plantation drive, emphasizing environmental conservation. In our college we planting more than 50 plants

- * **74th Van Mahotsav Celebration (10/08/23)**
Collaborating with the Forest Department in Mogari, Anand, the NSS Unit celebrated Van Mahotsav to raise awareness about forest preservation.
- * **Independence Day Flag Collection (15/08/23)**
NSS volunteers collected flags with reverence in Vallabh Vidhyanagar, marking Independence Day with dignity.
- * **Inauguration of NSS Vatika (19/08/23)**
Dr. Kamal Kumar Kar Sir (Gujarat Regional Director, NSS) inaugurated the NSS Vatika at VP Science College, VVN, aligning with the ethos of Meri Mati, Mera Desh, and Aazadi Ka Amrit Mahotsav.
- * **Human Organ Donation Seminar (16/09/13)**
A seminar on human organ donation at Bhaikaka Library highlighted the importance of this noble cause.
- * **NSS Day Celebrations (22/09/23 - 24/09/23)**
State-level celebrations at SPU, including a rally, showcased the NSS Unit's commitment to service and community engagement.
- * **Wildlife Week (07/10/23)**
Collaborating with the Social Forestry Department and Zoology Department, the NSS Unit organized seminars and exhibitions to promote wildlife conservation.
- * **National Integration Camp (22/11/23 - 28/11/23)**
Our college 2 Boys, 2 Girls volunteers Dhyey Bhatt, Kashyap Patel, Palak Patel, Bhumi Vora attended national integration camp, camp organized by Karnataka University, Dharwad. In this camp all india states are participate. In this camp show different state and diversity.
- * Our college volunteer JAGRITI SHUKLA (SY BSC) SHE was selecting for **Republic day parade** at kartavya path Delhi on 26 January. This journey is not easy there is 5 level of selection college, university, state, zone and thenational. In this journey she meetour honourable prime minister Narendra Modi at pm house and president honourable Droupadi Murmu our sports and youth minister honourable Anurag thakur. she done parade (right marker in fourth line) and also culture program in front of prime minister and president.
- * Our college volunteer Kashyap Patel has been Attended national camp like **Yuva Sangam, Bihar**
- * **(16-12-2023 to 21-12-2024) national integration camp, karnataka** and **National Youth Festival camp, Nashik (12-01-2024 to 16-01-2024)** under the banner of the National Service Scheme (NSS) was an enriching and transformative experience. These camps provided a unique platform to interact with peers from diverse backgrounds, fostering a spirit of unity and cultural exchange. In a nutshell, Bharat is diverse in its culture, languages, and attire, yet it remains united.

- * Our college one girl volunteer Paridhi Patel is attending **National adventure camp** at Atal Bihari Vajpayee institute of mountaineering and allied sports, PONGDOM, HIMACHAL PRADESH.

Name of the Club	N.S.S.
Ex-Officio	1. Dr. Rahiv Bhatti 2. Mr. Atul Patel 3. Ms. Nayana Kalsariya
Student Secretary	1. Dhyey Bhatt 2. Palak Patel

Details of the Activities

Name of the Event	Participants	Level/Organizer	Date	Winners
Pre RD	Jagriti Shukla	Government of India	1-11-2023 to 11-11-2023	Represented Gujarat
National Intergration Camp (N.I.C.)	1. Bhoomi Vora 2. Palak Patel 3. Kashyap Patel 4. Dhyey Bhatt	Karnataka regional directorate of N.S.S.	22-11-2024 to 28-11-2024	Represented Gujarat
Adventure Camp	Paridhi Patel	Government of India	8-12-2024 to 17-12-2024	Represented Gujarat
Yuva Sangam	Kashyap Patel	Government of India	16-12-2023 to 21-12-2023	Represented Gujarat
National Youth Festival (N.Y.F)	Kashyap Patel	Ministry of Youth Affair and Sports	12-1-2014 to 16-12-2024	Represented Gujarat
Republic Parade	Jagriti Shukla	Government of India	26-1-2024	Represented Gujarat

* **One-Day Camp at Kanewal and Pariej (30-12-23)**

One day camp at kanewal, a charming small island in the Khambhat district, was an enriching and memorable experience the serene environment of kanewal, combined with warm hospitality of the villagers. Nestled amidst serene landscape and surrounded by water, kanewal offered a perfect escape from the hustle and bustle of city life.

* **Blood Donation Camp (05/01/24)**

Teaming up with the Red Cross Society, Anand, the NSS Unit organized a successful blood donation camp, our college volunteers contributing 85 units of blood.

* **NSS Special Camp (17/01/24 - 23/01/24)**

At the Art of Living Ashram, Akalvadi, various activities done by NSS volunteer like morning yoga, cleaning ashram campus, interaction with villagers by schooling activities, cleaning river, Village survey, every night different state culture represent,

a street play in akalvadi village. This camp aimed to bridge the gap between urban and rural communities, focusing on health, education, and empowerment.

* **Republic Day Flag Collection (26/02/24)**

NSS volunteers collected flags which was thrown out by public in the streets in honour of Republic Day, symbolizing their dedication to national symbols.

* **First Aid and CPR Training (15/02/24)**

Red Cross Society trainer provided valuable first aid and CPR training to NSS volunteers, in this activity train how we save life using some first aid treatment, help of CPR training enhancing their lifesaving.

* **Thalassemia Test (23/02/24)**

Approximately 80 students underwent thalassemia testing, contributing to health awareness and early detection of hereditary disorders.

8. SPORTS CLUB

Ex-Officio : Dr. J. K. Chauhan

Students Secretaries : Manas K Jotva & Vandana Deshani

In this current year 2023-24, Boys and Girls of our college took part in various Inter college competition organized by Sardar Patel University, District level, state level, Gujarat state khelmahakumbh, National and junior National Tournament. In which Boys and Girls participated in Badminton, Table Tennis, Volleyball, Handball, Basketball, Cricket, Chess, Kabaddi, and Athletics where as Boys and Girls participated in most of the activities as mentioned above.

* **OUR COLLEGE ACHIEVEMENT IN VARIOUS TOURNAMENTS 2023-24**

1. Our College Boys were The **CHAMPION** in Sardar Patel University Inter Collegiate **CHESSTournament** 2023-24.
2. Our College Boys were The **RUNNERSUP** in Sardar Patel University Inter College **Football** Tournament 2023-24
3. Total **10 Boys** participated in Inter University **West Zone** Tournament 2023-24 in various Games.
4. Total **3 Girls** participated in Inter University **West Zone** Tournament 2023-24 in various Games.
5. Our College girls Vandana Deshani TY Micro has participated in Gujarat State zonal pro kabaddi in at Vadodara by Anand team Plyaer.
6. Vandana Deshani (TY Micro) and Twinkle singh (TY BCA) both Girls from our college secured third position in "Anand District Khelmahakumbh Badminton Tournament 2024" and Go cash prize of 4000 Rs.
7. In the Khelmahakunbh 2024 organized by the Government of Gujarat, Our College **TABLE TENNIS GIRLS** have secured **SECOND POSITION**.
8. In the khelmahakunbh 2024 organized by the Government of Gujarat, Our College **Badminton** Girls have secured **3Rd position**.
9. **BADMINTON GIRLS** have secured **THIRD POSITION** in **DISTRICT LEVEL**.

10. In Zonal PRO KABADDI SEASON 1 our college ONE GIRL has been selected from ANAND DISTRICT TEAM

OUR COLLEGE BOYS AND GIRLS PARTICIPATED IN SARDAR PATE UNIVERSITY INTER COLLEGIATE VARIOUS TOURNAMENTS 2023-24

1. Our College 12 Boys have participated in Sardar Patel University Inter College **Basketball** Tournament 2023-24
2. Our College 12 Boys have participated in Sardar Patel University Inter College **HANDBALL** Tournament 2023-24
3. Our College 12 Boys have participated in Sardar Patel University Inter College **Volleyball** Tournament 2023-24
4. Our College 12 Boys have participated in Sardar Patel University Inter College **Kabaddi** Tournament 2023-24
5. Our College 20 Boys and have participated in Sardar Patel University Inter College **FOOTBALL** Tournament 2023-24
6. Our College 16 Boys have participated in Sardar Patel University Inter College **Cricket** Tournament 2023-24
7. Our College 10 Boys have participated in Sardar Patel University Inter College **Athletics** Tournament 2023-24
8. Our College 06 Boys have participated in Sardar Patel University Inter College **Badminton** Tournament 2023-24
9. Our College 06 Boys have participated in Sardar Patel University Inter College **Chess** Tournament 2023-24
10. Our College 05 Boys have participated in Sardar Patel University Inter College **Table Tennis** Tournament 2023-24
11. Our College 02 Boys have participated in Sardar Patel University Inter College **swimming** Tournament 2023-24
12. Our College 12 Girls have participated in Sardar Patel University Inter College **Kabaddi** Tournament 2023-24
13. Our College 04 Girls have participated in Sardar Patel University Inter College **Badminton** Tournament 2023-24
14. Our College 04 Girls have participated in Sardar Patel University Inter College **Table Tennis** Tournament 2023-24
15. Our College 12 Girls have participated in Sardar Patel University Inter College **VOLLEYBALL** Tournament 2023-24
16. Our College 10 Girls have participated in Sardar Patel University Inter College **Basketball** Tournament 2023-24
17. Our College 06 Girls have participated in Sardar Patel University Inter College **Chess** Tournament 2023-24.
18. Our College 04 Girls have participated in Sardar Patel University Inter College **Athletics** Tournament 2023-24
19. Our College 02 Girls have participated in Sardar Patel University Inter College **Rifle shooting** Tournament 2023-24.
20. Our College 113 Boys and 54 Girls have participated in various inter Collegiate tournament of Sardar Patel University 2023-24.

Total 12 boys team and 168 players was participated in our College inter Class Cricket league **VPCL Tournament 2023-24**.

**PLAYERS LIST OF VARIOUS INTER
UNIVERSITY WEST ZONE/ALL INDIA TOURNAMENT 2023-24**

SR NO	PLAYERS NAME	INTER UNIVERSITY WEST ZONE/ALL INDIA TOURNAMENT	CLASS & ROLL NO	PLACE
1	Sharma Valay Girishbhai	FOOTBALL	T.Y B.Sc IC	MUMBAI (Maharashtra)
2	Pal Manishkumar Ramkishor	FOOTBALL	T.Y B.Sc MATHS	MUMBAI (Maharashtra)
3	Rathwa Gulabbhai Jentabhai	FOOTBALL	S.Y. B.Sc MATHS	MUMBAI (Maharashtra)
4	Rathva Ashvinbhai Zinabhai	FOOTBALL	S.Y. B.Sc MICRO	MUMBAI (Maharashtra)
5	Rathwa Radheshbhai Mohanbhai	FOOTBALL	F.Y. B.Sc MATHS	MUMBAI (Maharashtra)
6	Jotva Manaskumar Khimabhai	HANDBALL	S.Y. B.Sc IC	SAGAR (M.P)
7	Rathod Jitendra Pratapbhai	HANDBALL	F.Y.B.Sc IC(V)	SAGAR (M.P)
8	Bapodara Divyesh Nileshbhai	HANDBALL	T.Y.B.Sc CS	SAGAR (M.P)
9	Gaurav ashokkumar jethava	BASKETBALL	S.Y.B.Sc MATHS	JAIPUR(RAJA: THAN)
10	Armaan Singh Sandhu	BASKETBALL	F.Y.B.Sc CS	JAIPUR(RAJA: THAN)
11	Deshani Vandana Balakdas	KABADDI	T.Y.B.Sc Micro	CHHATTARPUR(M.P)
12	Chaudhary Haniben Maheshbhai	KABADDI	T.Y.B.Sc Chem	CHHATTARPUR(M.P)
13	Solanki Siddhi Bhupendrakumar	CHESS	T.Y,BSC MATHS	MUMBAI

9. DEBATE CLUB

Ex-Officio: Dr Charudutt Gurjar

Student Secretary: Ms. Dona Vieyra

Details of the Activities

Name of the Event	Participants	Level / organizer	Date	Winners
Extempore Speech Competition	15	College Level	9th January, 2024	Kajal Nayak, Sarang Patel, Krishna Achari, Dona Vieyra, Charmi Patel.

10. WOMEN'S DEVELOPMENT CELL

Convener : Ms. S.K.Menon

Activities during the year 2023-24

1. An orientation for the girl students of the college was conducted on 27.6.23
2. A talk on awareness of cyber crime was organized by CWDC on seventh August 2023. Assistant Sub Inspector Mustakim Malek and Cyber Promoter Mr Viren Joshi presented the talk for the awareness campaign. Police constable Mr Mayursinh Solanki was also present during the talk.
3. Ten students of V.P.Science college accompanied by Ms. S.K.Menon and Dr. Neha Rathod went to Vadtal to attend the programme, 'Narayani Sangam'. Gender sensitization, gender empowerment were the topics addressed.
4. A five day Karate training programme was conducted by CWDC from 5.2.24 to 9.2.24. fifty students participated in the same. The subject expert Mr Chetan Fumakiya of Pratibha Academy enthusiastically gave training to the students.

11. Coaching for entry into service : [VPM IAS STUDY CLUB]

Coordinator : Dr. A. R. Jivani

The college operates the VPM IAS STUDY CLUB, which provides coaching for entry-level services. The primary objective is to familiarize our students with competitive examinations conducted by UPSC, GPSC, IBPS, and other relevant bodies.

Key Initiatives :

* **Seminars and Orientation Programs :**

- * The club organizes seminars and orientation programs throughout the year to guide students on the format and requirements of various competitive examinations.

* **"Tricks for Fast Calculations" Lecture:**

Annually, the club hosts a lecture on "Tricks for Fast Calculations." Experts share techniques for solving mathematical problems swiftly and accurately, enhancing students' efficiency during competitive exams.

* **Study Materials and E-Newspapers :**

The club provides daily study materials and useful e-newspapers in both soft and hard formats to aid students in their exam preparation.

* **Inviting Subject Experts :**

Experts from diverse fields such as Geography, Economics, History, and Political Science are invited to share insights and guidance with club members.

* **Orientation Program for Post-Graduation Competitive Exams :**

On 3rd August 2023, the club organized an orientation program to inform students about various competitive examinations after graduation.

* **Motivational Lecture by Mr. Chiragbhai Patel :**

In collaboration with the Training & Placement Cell, the club hosted a motivational lecture by Mr. Chiragbhai Patel (Coordinator, Dhyey Academy, Vallabh Vidyanagar). He emphasized cultivating habits necessary to crack competitive exams, even for ordinary students. His guidance covered the formats of examinations conducted by GPSC, UPSC, and other civil services.

12. College Prospectus and Academic Calendar Committee :**Coordinator:** Dr. A. R. Jivani

- * Every year college provides prospectus of the college with admission form which gives useful information to the students and parents about college, course structure, rules and regulations, curricular and co-curricular activities, achievements of the students and more and hence it is necessary to update college prospectus regularly.
- * Last year, we published our college Academic Calendar which give useful information about tentative date of curricular and co-curricular activities, examinations and holidays and term schedule etc.

13. Add-On Courses Coordinator : Mr. Rajesh P. Solanki

During the academic year 2022-23 four add-on courses were offered to the students of the college. Details of the courses are provided below

Sr. No.	Title of the course	Coordinator	Department	Number of students
1.	Textile Dyeing and Printing	Dr. Yogesh B. Vadwala	Chemistry	18
2.	Manufacturing of Domestic Items	Dr. H. R. Maradiya	Chemistry	15
3.	Elementary Course in La Tex	Dr. S. A. Bhanotar	Mathematics	10

14. Innovation club : Coordinator : Dr Vipul Kataria**Innovation Exhibition**

- Exhibition of Projects made by Students using Innovation kits
- Central hall , V. P. & R. P. T. P. Science College
- 45 participants and 800 visitors

Preamble : V. P. & R. P. T. P. Science college is one of the premier institutes of state working in all the fields of educational aspects for students including development of students

Highlights of an Event

- The event was organized by Innovation club of V. P. & R. P. T. P. Science college on 15/09/2023. The idea behind the event was to propagate innovative practice in the students groups.
- Innovation club formed by the government. Many innovative kits were provided by government.
- Innovation club welcomes all the students groups with their innovative ideas.
- In this event many near by schools and college were welcomed to visit the projects prepared by our students. Along with this students had also made a short film of the college.
- CVM guest were welcomed with innovative flower.
- The whole event was anchored by Dr. Vipul Kataria (Coordinator, Innovation club). Many staff member attended the event.

સફળ કેવી રીતે બનવું ?

‘પરાજયનો વિચાર પરાજય જ નોતરે છે, હિંમત વિના તો સિદ્ધિ મળતી નથી,
જીતવું છે, પરંતુ શ્રદ્ધા નથી, તો જીત મળતી જ નથી’
‘‘પરાજિત મન એ જ પરાજય છે, સફળતા હિંમતને ધરે એ, દુનિયાનો નિયમ,
તેથી જ તો કહેવાયું, મન હોય તો માળવે જવાય’’
‘‘વિજયનો વિચાર એ જ તમારી જીત, શિખરે પહોંચવા મક્કમ હશે’’
‘‘જિંદગીનો જંગ કાયમ, બળવાન નથી જીતતા,
પણ, માર આત્મવિશ્વાસ જ, વિજેતા નક્કી કરે છે.’’

આજ આપણે જાણીશું સફળ કેવી રીતે બનવું ? ગુજરાતીમાં આજના સમયમાં બધા સફળતા (Success tips) પ્રાપ્ત કરવા ઈચ્છે છે કેમકે બધાને સફળતા (Achieving Success) કંઈકને કંઈક કરીને જોઈએ છે. માટે બહુ બધા લોકો સફળતા (Success) માટે એવા રસ્તા પર નીકળી પડે છે. જે શોર્ટ કટ અથવા ખોટો રસ્તો હોય.

આ બધાનું મુખ્ય કારણ એ છે કે લોકો સફળતાને પૈસા સાથે જોડીને જોવે છે. બધાને લાગે છે કે જેની પાસે વધારે પૈસા એ વધારે સફળ, પરંતુ બહુ બધા પૈસા હોવા એ સફળતા નથી હોતી.

સફળતા શું છે ? (What is Success)

જો તમે સફળ થવા ઈચ્છો છો તો સૌથી પહેલા તમારે સમજવું પડશે કે સફળતા પાંચ વાતોથી મળીને બને છે.

૧. આર્થિક રૂપથી સક્ષમ. ૨. સમાજમાં સન્માન તેમજ પ્રતિષ્ઠા.
૩. આપણાથી નાના અને મોટા લોકો પ્રત્યે માન સન્માનની ભાવના.
૪. લોકોને પ્રોત્સાહિત કરવાના ગુણ ૫. માતા-પિતા પ્રત્યે હંમેશાં સન્માન અને સમર્પણ.

જો આ પાંચ ગુણો તમારામાં છે. તો તમે સાચા અર્થમાં સફળ વ્યક્તિ કહેવાશો પરંતુ જો તમારામાં આ પાંચ ગુણમાંથી એક પણ ઓછો છે. તો તમને સફળ થવામાં બહુ બધી સમસ્યાઓનો સામનો કરવો પડશે.

૧. આજથી જ કરો શરૂઆત : જીવનમાં સફળતા મેળવવા (Successful) માટે જે પણ કરવું હોય એ તમે આજથી જ શરૂઆત કરી દો, આજે રહેવા દો કાલથી કરીશ એ પછી પેલું-પેલા આવી જાય પછી આવા બહાના ને આજથી જ બદલી નાખો. કેમકે જેને આજે સમયની વેલ્યુ કરતાં શીખી લીધું અને આજમાં જીવતા શીખી લીધું એ આજે નહીં તો કાલે પણ સફળતા જરૂર પ્રાપ્ત કરશે, આજે અહીં તમારે સમજવું પડશે કે સમય એક એવું વસ્તુ છે જેને ધનિકથી ધનિક વ્યક્તિ, પણ પોતાના વશમાં નથી કરી શકતો.

એકવાર સમય હાથથી નીકળી ગયા પછી એ સમય ક્યારેય પાછો નથી આવતો. એટલા માટે આજે તમારી પરિસ્થિતિ કેવી પણ હોય ભલે તમે એકલા હોય પણ આની શરૂઆત આજથી જ કરી દો. સફળતાનો રસ્તો એની મેળે બનતો જશે.

આજે તમે જેટલા લગનથી કામ કરશો તેટલું તમારું ભવિષ્ય ઉજળું થશે. કેમકે આજે સમય જ બધું છે. સમય જ પૈસા છે. જેણે સમયનું મહત્વ સમજી લીધું તે સફળતા જરૂર પ્રાપ્ત કરશે.

૨. લાઈફ ગોલ સેટ કરો (લક્ષ્ય નિશ્ચિત કરો) : જીવનમાં સફળતા મેળવી છે તો તમારે નિશ્ચિત લક્ષ્ય કરવો જ પડશે કે તમારે શું બનવું છે. કે તમારે શું કરવું છે તમારે શું પામવું છે. તમારે નિશ્ચિત કરેલો લક્ષ્ય કેટલા ટાઈમમાં પૂર્ણ કરવાનો છે. એ પણ નિશ્ચિત કરવું પડશે. આની માટે તમારે પહેલા એક લક્ષ્ય લઈ ફાઈનલ કરો કે શું કરવાનું છે પછી દરરોજના હિસાબે એના માટે નાના નાના ટાર્ગેટ નક્કી કરો.

કેમકે તમારી મજબૂત સફળતા માટે તમે દરરોજના ટાર્ગેટ સેટ કર્યા છે. તેના પર આધારિત રહેશે જે તમને તમારા નિર્ધારિત લક્ષ્ય સુધી લઈ જશે, તમે સેલ્ફ મોટીવેશન કરો જેથી કે તમારું લક્ષ્ય કેટલો પણ મોટો કેમ ના હોય તમારે ત્યાં સુધી પહોંચવાનું જ છે સેલ્ફ મોટીવેશનથી તમને ખૂબ તાકાત મળશે લક્ષ્ય કોઈ બી સંજોગોમાં પૂર્ણ કરવાનું જ છે.

જો તમે તમારો લક્ષ્ય નિર્ધારિત નહીં કરો તો તમે તમારા કામોમાં વ્યસ્ત રહેશો અને નવા નવા બહાના બનાવીને તેને ટાળતા રહેશો જે તમને તમારી સફળતાથી ખૂબ દૂર લઈ જશે.

૩. સપનાઓ જોવો અને સપનાઓને પૂર્ણ કરો : સપના તે નથી હોતા જે તમે રાતે સૂઈ જાવ ત્યારે આવે, હું એ સપનાની વાત કરું છું જે તમે ખુલી આંખે જોવો છો ખુદ્દી આંખે જોયેલા સપના તમારી રાતની ઊંઘ ખરાબ કરી દેશે, જે દિવસે તમને ખુદ્દી આંખે જોયેલા સપના પૂર્ણ કરવાનો ઉત્સાહ આવી જશે તે દિવસે કોઈ પણ તમને તમારી સફળતાના રસ્તામાં રોકી નહીં શકે.

પરંતુ આની માટે તમારે પહેલા સપનું જોવું પડશે અને તમારે એ સપનાને પૂર્ણ કરવા આજથી જ પ્રયત્ન કરવા લાગી જવું પડશે. તમે જેટલા ઊંચા સપના જોશો એટલી તમારી સફળ (Successful) થવાની સંભાવના વધી જશે. પરંતુ તમારી પૂરી ઈમાનદારી અને ગંભીર થઈને પોતાના સપનાને પામવા પ્રયત્નશીલ રહેવું પડશે.

૪. તમારા આદર્શ વ્યક્તિને અનુસરો : (ફોલો કરો.) : તમે જે લક્ષ્ય નક્કી કર્યો છે તે લક્ષ્યની ફિલ્ડમાં સફળ થયેલા લોકોને શોધો અને એમાંના કોઈ એકને અનુસરણ કરવાનું શરૂ કરી દો. આનાથી તમને તે સફળ (Successful) વ્યક્તિથી મોટીવેશન મળશે અને તેમનાથી તમને નવા નવા આઈડિયા પણ મળશે જે તમે સફળતાના માર્ગમાં ખૂબ મદદરૂપ થશે.

આ તો તમે પણ જાણો છો કે ગુરુ વગર જ્ઞાન અને ગાઈડલાઈન વગર તમે તમારા સફળતાના માર્ગ સુધી પહોંચી નહીં શકો. જીવનમાં સફળતા માટે બે જ રસ્તા છે એમ તો તમે તમારા અનુભવોના આધારે અને બીજો ગુરુના માર્ગદર્શન પ્રમાણે.

જો તમે તમારા અનુભવના આધારે આગળ વધવા ઈચ્છો છો તો તમને થવા Successful માં ૫૦-૬૦ વર્ષ લાગી શકે છે. જે બહુ જ વધારે છે પણ જો તમારે જલ્દી સફળતા પ્રાપ્ત કરવી છે તો તમારે એક આદર્શ વ્યક્તિ કે તમારા ગુરુનું અનુસરણ કરવું પડશે.

૫. નવું શીખવાની આદત નાખો : જીવનમાં આજ નહિ તો કાલે સફળતા પ્રાપ્ત થઈ જશે જેમ ઉપર બતાવ્યું છે તે પ્રમાણે, પણ પોતાની સફળતાને હંમેશા બનાવી રાખવા માટે તમારે નવું શીખવાની આદત હંમેશા બનાવીને રાખવી પડશે જે તમારી સફળતા બરકરાર રાખવામાં મદદરૂપ થશે.

હંમેશા જોવામાં આવ્યું છે મોટાભાગના લોકોએ ભૂલ કરતા હોય છે કે સફળતા મળ્યા પછી શીખવાનું છોડી દે છે. એમને એવી ગલતફેમી હોય છે કે અમને બધું જ આવડે છે. બધી જ વસ્તુની ખબર છે એટલા જ માટે તે થોડા વરસોમાં બીજા લોકોથી પાછળ આવતા રહે છે. તમે આવી ભૂલ ના કરતા.

તમે જે બી પ્રોફેશનમાં હોય તેથી બધી જ નવી વસ્તુથી અપડેટ રહો અને તેને શીખતાં રહો અને સમયથી સાથે ચાલો, આ બધી વાતો તમને Successful કેવી રીતે બનવું એમાં મદદ થશે.

"Your Life is a Reflection of your Thoughts " - Be Positive

કડીવાલા મુજામીલ એસ.

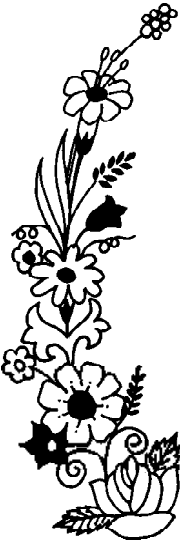
ટી.વાય.કેમેસ્ટ્રી, રોલ નં.૬૭ (છઠ્ઠું સેમ)

(મો) ૭૫૭૩૯૧૭૧૦૮

જય ભીમ

દર્શન કરાવ્યાં જગ તણા માત-પિતાએ,
 પણ લોક વચાળે ઊભો રહ્યો તુજ થકી.
 કર ગ્રાહી પગભર કર્યા માત-પિતાએ,
 પણ એ રાહ પર કદમ માંડ્યા તુજ થકી
 અસ્તિત્વનો આભારી હું માત-પિતાનો,
 પણ શિક્ષિત, સર્વગ્રાહી બન્યો તુજ થકી.
 અસંખ્ય વિશેષણોથી નવાજ્યો જગે મને,
 જનસમૂહ માણસ કહેવાયો હું તુજ થકી.
 ઘૃણા, તિરસ્કારથી હડધૂત કર્યો સૌ કો મને,
 ઉન્નત મસ્તકે વિહરી રહ્યો આજ તુજ થકી
 દર્શન કરાવ્યાં જગ તણા માત-પિતાએ,
 પણ લોક વચાળે ઊભો રહ્યો તુજ થકી.

પરિતા જગદીશચંદ્ર પાતાળિયા
 એસ.વાય.માઈકોબાયોલોજી
 રોલ નં. ૪૮૮,
 (મો) ૯૩૧૩૦૩૯૭૫૭



મેં કલશોર હું

હર વક્ત અપના આશિયાના બદલતા હું,
 અપના સ્વભાવ નહીં.
 હર ઘરમેં બસતા હું મેં અલગ હી અંદાઝ મેં
 હર દિલમેં બસેરા મેરા, ક્યું-કેસે પતા નહિ.
 હર કોઈ ચાહતા હૈ મુજે અપને નજરિયે સે,
 મેં સબકે દિલમેં બસતા હું દિમાગ મેં નહીં,
 અબ મિલેગા શુક્ર આપકો ક્યોંકી...
 જ્યાદા વક્ત કોલેજ યા કલાસિસ મેં ગુજરુંગા,
 મેં કલશોર હું,
 હર વક્ત અપના આશિયાના બદલતા હું,
 અપના સ્વભાવ નહીં.

પરિતા જગદીશચંદ્ર પાતાળિયા
 એસ.વાય.માઈકોબાયોલોજી
 રોલ નં. ૪૮૮,
 (મો) ૯૩૧૩૦૩૯૭૫૭

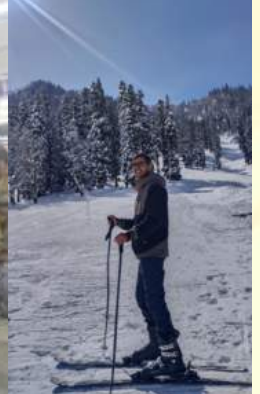
National Service Scheme (NSS) - 2023-24



National Service Scheme (NSS) - 2023-24



National Cadet Corps (NCC) - 2023-24



National Cadet Corps (NCC) - 2023-24



77th Annual Day



ી. સાયન્સ કોલેજમાં વર્કશોપ યોજાયો



વિદ્યા મં... વિજ્ઞાન...

વી.પી. સાયન્સ કોલેજના વિદ્યાર્થીઓ વી.પી.સાયન્સ કોલેજનાં વિદ્યાર્થીઓ દ્વારા થર્મલ પાવર સ્ટેશનની મુલાકાત ફૂટબોલ સ્પર્ધામાં રનર્સ અપ



સ કોલેજમાં નેશનલ મેથેમેટિક્સ ડે ઉજવાયો



વી.પી. સાયન્સ કોલેજનાં વિદ્યાર્થીઓ માં પ્રેમ પોલિમર પ્લાસ્ટિકની મુલાકાત



વી.પી. સાયન્સ કોલેજનાં વિદ્યાર્થીઓ ઈન્ડસ્ટ્રીની મુલાકાત



વી.પી. સાયન્સ કોલેજ પ્રોફેસર બેસ્ટ શિક્ષક પુરસ્કારથી સન્માનિત થ



ી. પી. સાયન્સ કોલેજના વિદ્યાર્થીઓ સ્લિમરિંગ ૨૦૨૪માં વિજેતા



વી.પી. સાયન્સ કોલેજમાં પૂર્વ આર્મી સૈનિકનું સન્માન



વી. પી. સાયન્સ કોલેજની વિદ્યાર્થીની પ્રિ. આર. ડી. કેમ્પમાં પસંદગી પામ્યા



વી.પી. સાયન્સ કોલેજના વિદ્યાર્થીઓએ સીકાર્ટની મુલાકાત લીધી



વી. પી. સાયન્સ કોલેજમાં કારકિર્દી કાર્યક્રમ યોજાયો



વી.પી. સાયન્સ કોલેજની હોસ્ટેલમાં આરોગ્યકેન્ડેશન કાર્યક્રમ



વિધાનગર વી.પી. સાયન્સ કોલેજમાં ઈન્ડકશન પ્રોગ્રામનું આયોજન



આઈ.ટી. આઈ. વી. પી. સાયન્સ કોલેજના એન દ્વારા આઝાદીના અમૃત મહોત્સવ ભાગરૂપે પૂર્વ આર્મી સૈનિક સુરેશભાઈ આયુ હતું. આ પ્રસંગે યો.પ્રિયુષ લશ્કરી દ્વારા પુરસ્કાર કરવામાં આવ્યું હતું. કાર્યક્રમ એનએસએસ પ્રોગ્રામ ઓફિસર ડો.રાઈ કરવામાં આવ્યું હતું.



વી. પી. સાયન્સ કોલેજમાં NSS યુનિટ દ્વારા વાટિકાપુ



વી. પી. સાયન્સ કોલેજમાં વર્કશોપનું આયોજન કરવામાં આવ્યું હતું



વી.પી. સાયન્સ કોલેજમાં ઈનોવેશન પ્રોજેક્ટ પ્રદર્શન



વી. પી. સાયન્સ કોલેજમાં 'અવેરનેસ ઓફ સાયબર' પર વ્યાખ્યાન

પ્રેમ

સબસે બડા હૈ પ્રેમ જગત મેં, પ્રેમ સા ના કુછ દુઝ
પ્રેમ સબ ઈશ્વર કા રૂપ હૈ, પ્રેમ હી સચ્ચી પૂજા.

પ્રેમ, અર્થાત્ શાંતિમય, મીઠી અનુભૂતિ. પ્રેમ એટલે ભગવાનનું જ બીજું રૂપ ! પ્રેમના અનેક સ્વરૂપો છે, જેમ કે, માતારૂપી પ્રેમ, પિતારૂપે પ્રેમ, ભાઈ-બહેનરૂપી પ્રેમ, મિત્રરૂપી પ્રેમ !!! આ દુનિયા પ્રેમ વગર અધુરી છે. પ્રેમ બધા ભાવોથી શક્તિશાળી અને ચડિયાતો છે. પ્રેમ ધારે તો, વ્યક્તિ પાસેથી અસંભવને પણ સંભવ બનાવવાની ક્ષમતા ધરાવે છે.

મળી જાય જીવનડગરે પગથિયું, તો વગર વિચાર્યે ચડી જજો પંથી,
ચૂકી ગયા જો એ પ્રેમ પગથિયું, ગુમાવી દેશો લક્ષ્યપૂર્તિની અમૂલ્ય તક.”

કહેવાય છે કે સાચો પ્રેમ વ્યક્તિને સફળતાની ટોચ સુધી લઈ જાય છે. વ્યક્તિનો વિકાસ કરે છે. હવે તમને એમ થશે કે સાચો પ્રેમ એટલે શું ? શું પ્રેમ ખોટો પણ હોય !! આ પ્રશ્ન મને પણ હતો. પણ હવે નથી કેમકે પ્રેમ તો સમર્પણ ભાવ છે. પ્રેમમાં આપણે આપણું સર્વસ્વ અર્પી દેવાનું હોય. વગર અપેક્ષા એજ સાચો પ્રેમ ! દરેકના જીવનમાં પ્રેમરૂપી પગથિયું હોય જ છે. માતા-પિતાના રૂપમાં, ભાઈબહેનના રૂપમાં, મિત્રના રૂપમાં અથવા તો પતિપત્નીના રૂપમાં. હવે પગથિયા પર ચડીને આગળ તો પોતે જ વધવાનું છે. જો પોતાનામાં જ આગળ વધવાના ઉત્સાહનો અભાવ હોય તો શું થઈ શકે ? પ્રેમમાં પડીને બધાને લાગવા લાગે છે. તેને સુધારી દઈશ, બદલી દઈશ !! પણ કોઈ વ્યક્તિ કોઈ નથી બદલી શકતું !! હા...વ્યક્તિને જો કોઈ બદલી શકે તો છે આત્મમંથન અને દૃઢ મનોબળ.

પ્રેમ જો સમજવા તો બહુ સરળ છે. અન્યથા જટિલ પ્રેમની કોઈ વ્યાખ્યા નથી હોતી. દૂર રહીએ. પણ સાથે હોવાનો આભાસ છે પ્રેમ ! એકબીજાનો એકબીજા પર સંપૂર્ણ વિશ્વાસ છે પ્રેમ ! ન કોઈ સ્પર્શની આશ બસ જીવન સંગે વિતાવવાની આશ છે. પ્રેમ. સ્વતંત્રતા અને બલિદાનનું એક માત્ર ઉદાહરણ છે. પ્રેમ, શાંતિ પણ પ્રેમ છે. અને સંતોષ પણ પ્રેમ છે અને એકબીજાની કાળજી રાખવી એ પણ પ્રેમ છે. પ્રેમ એટલે કોઈ પ્રત્યે દૃઢ્યમાંથી વહેતું અસ્ખલિત ઝરણું પ્રેમ છે. કંઈ ફરજિયાત ન હોય, કેમકે પ્રેમ પોતે જ એક સ્વતંત્ર અનુભૂતિ છે.

“મળે જો તુજને પ્રેમ કદી, કરજે ના ખુદથી દૂર.
સંભાળીને રાખજે દિલમાં સદા, શી ખબર પછી મળે કે નહિ”

આજના આધુનિક અને ફેશનેબલ જમાનામાં ઉન્નતિના પંથે લઈ જનારો પ્રેમ મળવો ખૂબ જ અઘરો છે. આજના યુવાનો પ્રેમને તો માત્ર મજા કરવાનું સાધન સમજી બેઠા છે. કડવું છે પણ આ જ સત્ય છે. ઘણા લોકો આકર્ષણ પ્રેમ સમજી બેસે છે. પ્રેમ અને આકર્ષણ વચ્ચે માત્ર ઝીણા દોરા જેટલો જ ફરક છે. મારા મત મુજબ આકર્ષણ કોઈક કારણથી ઉત્પન્ન થાય છે. આકર્ષણ ક્ષણિક છે. પ્રેમ ક્ષણે-ક્ષણમાં છે. આકર્ષણ એટલે જે ગમ્યું તેને માટે ઘેલા બની જવું ને જો ના મળે તો હતાશ. પણ એટલે પામવાની ઈચ્છા નહિ. પણ સમર્પણની ભાવના.

સમજવા વગર કોઈને પસંદ ના કરતાં, ના સમજમાં કોઈને ગુમાવી ના દેતાં,
લાગણીનો કોઈ દિ પ્રચાર નથી હોતો, પ્રેમ કદી નિરાધાર નથી હોતો.

હવે એમ થાય કે સમજીને પ્રેમ કેવી રીતે થાય ?? પણ આ જમાનામાં વ્યક્તિ પર વિશ્વાસ મૂકવો કઠીન છે, માટે આંધળા બનવા કરતાં સમજી-વિચારીને પગલું ભરવું મારા મતે વધુ યોગ્ય છે. ઘણીવાર પ્રેમ આપણી સાથે અને આપણી સામે જ હોય છે. પરંતુ આપણે તેને ઓળખી નથી શકતાં. અમુક લાગણીઓ બોલીને વ્યક્ત નથી થઈ શકતી, અમુક લાગણીઓની અનુભૂતિ જ સંભવ છે અને આ જ મારા મતે પ્રેમની અનુભૂતિ કહેવાય. આજકાલ જે બધા ઘરોમાં વડીલો પ્રેમની વિરુદ્ધ છે. તેઓનું કારણ એ નથી કે તમે બધું તેમના પ્રમાણે જ કરો. એ તેમનો પ્રેમ છે, ચિંતા છે. તમારા માટેની કે તમે ખોટા માર્ગે ના ચડો !! વિશ્વાસની આડમાં તમને કોઈ નુકશાન ના પહોંચે માટે મારા ઘરવાળા મને સમજતા નથી

એવું કહેવાને બદલે તેમના વિચાર અને તમારા માટેના પ્રેમનું સન્માન કરો તમે જો કોઈના પ્રેમને સમજશો તો જ તે તમારા પ્રેમને સમજશો.

પ્રેમ એટલો છે તારાથી પ્રિયે, તારી ના' થી હતાશ નહિ, પ્રેરિત થઈશ.

જરૂરી નથી કે આપણે જેને પ્રેમ કરીએ તે પણ આપણને પ્રેમ કરે. ઘણીવાર ના સાંભળીને લોકો ખૂબ જ હતાશ થઈ જાય છે, એકલું રહેવા લાગે છે, મિત્રોથી દૂર થઈ જાય છે. તો શું તમે એક ના સાંભળીને હારી ગયા ? સાચો પ્રેમ પોતે જ વ્યક્તિ પાસે પહોંચી જાય છે. પ્રેમ એ એક વિશેષ અનુભૂત છે. કદાચ વાંચીને એવું લાગે કે લખવું સરળ છે, જેના પર વીતે એ જ સમજે !! પણ લખાણમાં શબ્દો નીકળે ને તે ભાવથી જ ઉત્પન્ન થાય છે. માટે હું હતાશ થયેલા લોકોને એટલું જ કહેવા માગું છું કે ના થાવ હતાશ. કરી બતાવ જો તને પ્રેમ પર વિશ્વાસ હોય તો કરી બતાવ !! મિત્ર તું મંડી પડ પરિશ્રમનો કોઈ વિકલ્પ નથી તું બસ કર્મ કર ફળની અપેક્ષા છોડી દે. છેલ્લે મને એક ઈકબાલનો શેર યાદ આવે છે.

ખુદી કો કર ખુલંદ ઈતના કી હર તકદીર સે પહલે, ખુદા બંદે સે ખુદ પુછે બતા તેરી રજા ક્યા હૈ

પરિતા જગદીશચંદ્ર પાતાળિયા

એસ.વાય.માઈકોબાયોલોજી

રોલ નં. ૪૮૮

બાકી જીંદગી આમ તો સરળ છે...

દુઃખ મને થોડાં સહાતાં નથી,
બાકી જીંદગી આમ તો સરળ છે.
લખવામાં ભૂલ કરી કદાચ તે,
નસીબનાં બે પાનાં વંચાતા નથી.
બાકી જીંદગી આમ તો સરળ છે.
તારું અસ્તિત્વ શોધવામાં,
મને ખુદને મળાતું નથી,
બાકી જીંદગી આમ તો સરળ છે.
જમી લેવાય છે. જીવી લેવાય છે.
હસી લેવાય છે. ને રોઈ પણ લેવાય છે.
બસ બધું કેમ થાગય એ સમજાતું નથી,
બાકી જીંદગી આમ તો સરળ છે.

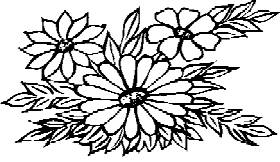


મોદી અક્ષિતા

એસ.વાય.બી.એસ.સી., રોલ નં. ૧૩૧

ડર લગને લગા છે...

- અબ ઈસ દુનિયા સે ડર લગને લગા છે
- કીસ પર ભરોસા કરું ઔર કીસ પર ના કરું, યે ઉલજન મે મન પડા છે.
- કીસી પર ભરોસા કરતી હું તો ડર લગતા છે, કહી કુછ ગલત ના હો જાયે મેરે સાથ.
- કિસ્સે કુછ એસે લડતે જા રહે છે, કી ઘર સે બહાર નિકલને મે ભી ડર લગતા છે.
- લોગ કહતે છે કી રાત કો બહાર મત નિકલો, અબ તો દિન મે ભી ડર લગને લગા છે.
- સિર ઉઠાકે કભી ગાવ જો નહીં ચલે, ક્યુંકી પાપા સિર ઉઠારે ચલ શકે, પર ઈસ અન્જાન શહેર મે અબ ડર લગતા છે.
- કભી કભી કુછ કિસ્સે સૂનકર એસા હો જાતા છે, કી ભગવાન ઈસ ગંદે સમાજ મેં હમે ભેટી બનાકર ક્યુ ભેજા.
- ઈસ ગંદે લોગો કે બીચ ખુદ કો કેસે સંભાલે, યે સોચ કર લગતા છે.
- પાપા અબ તો હરવક્ત ડર લગા રહેતા છે. કી જલ્દી સે પઢાઈ પુરી કર કે ઘર આ જાયે
- અબ ઈસ બહાર કી દુનિયા સે મુજે, બહોત ડર લગને લગા છે.
- પાપા કભી કભી કાપ જાતી હું, ઈસ ગંદે સમાજ મેં ખુદ કો બચા નહીં પાઈ તો, યે સોચ કર ડર લગતા છે.
- પાપા નહી અચ્છે હોતે યે શહેર, મુજે તો ગાવ હી અચ્છા લગતા છે
- પાપા અબ મુજકો ડર લગને લગા છે.



દિશા એ. પરમાર
એસ.વાય.માઈક્રોબાયોલોજી

"We need to be willing to accept our feelings around an event in order to fully gain the benefits, which are available from it."

"Emphasizing that forgiving allows us to access the wisdom we can gain from an experience."

"If we hold onto our wounds in an area of life then we hold back the growth of wisdom in that area too."

સફળતા સુધી પહોંચવાની યાત્રા

“ઉઘાડી દ્વાર મનનાં, પ્રકાશ ભીતરમાં ભરીએ

જ્ઞાનધોધમાં સ્નાન કરીને, તાગ જાતનો કરીએ.”

મન ! શબ્દમાં જ ચંચળતા છે અને એ જ મનન અંદર સ્થિરતા છુપાયેલી છે. ચંચળતા એટલે લડવાનું મૂકી દેવાનું બહાનું; જ્યારે સ્થિરતા એટલે મનને વશમાં રાખવાનું એક માત્ર હથિયાર. મનુષ્ય મન વાતો તો બહુ મોટી-મોટી કરે પણ અમલમાં લાવતા નથી. જે નક્કી કરીએ તે વર્તનમાં લાવીએ તો જ આગળ વધી શકાય.

આજે બધા માનવી મનના ગુલામ બનતા જાય છે. જરાક પોતાની જાતને સવાલ તો કરો ! મન એ આપણને ગુલામ બનાવ્યું છે કે આપણે મનને ??? આ એક મોટો પ્રશ્નાર્થ છે ! આજે ઘણાં બધાં વિદ્યાર્થી બહુ જલદી હાર માની લે છે. અને આત્મહત્યા જેવા પગલાંઓ લઈ લે છે. મનોમંથન કેવડો મોટો શબ્દ પણ જે મનોમંથન કરી ગયું તે મન પર વિજય મેળવી ગયું.

જીતવા માટે લક્ષ્ય પ્રાપ્ત કરવાં શું-શું જરૂરી છે ? પહેલાં તો મનોબળ જો દૃઢ મનોબળ હશે તો જ કંઈક નક્કી થશે ને ! પછી આવે તાકાત, પોતામાં રહેલી બધી તાકાત ધ્યેય પાછળ લગાડશું તો જ સફળતા આવશે. ત્રીજા નંબરે આવે હિંમત કહેવાય ને “હિંમતે મદા તો મદદે ખુદા”. લોકો તો હિંમત તોડવાના જ છે ! આપણે મજબૂત બનવું પડશે. પછી આવે છે ધૈર્ય - કહેવાયને “ઉતાવળા સો બાવરાં; ધીરા સો ગંભીર” અને ઉતાવળે આંબા ન પાકે. આત્મસન્માન અને અનુશાસન પણ એટલું જ આવશ્યક છે. આળસ અને નકારાત્મકતા એ મનુષ્યનો મોટામાં મોટો દુશ્મન છે એટલે જ જીતવા માટે આ બધા ગુણો કેળવવા જરૂરી છે.

જ્યારે પણ મનથી હારો પોતાની જાતને જ સવાલ કરો ! મનની માયાજાળમાંથી બહાર આવીને સત્ત્વજનો માર્ગ શોધો. સત્ત્વ મનની વિચારતામાં છુપાયેલ છે. મનોબળના પણ પાછા બે પ્રકાર : (૧) બાહ્ય મનોબળ અને (૨) આંતરિક મનોબળ. જો બાહ્ય મનોબળ હશે તો તૂટી જ જવાનું છે ઉદાહરણ લઈએ તો અમીર માણસ માટે તેનો પૈસો જ સર્વસ્વ ! પણ પૈસો ચાલ્યો જાય તો તે વ્યક્તિ જીવી જ ના સકે. પરંતુ જો આંતરિક મનોબળ હશે તો તો અને તો જ મનુષ્ય તેના મન અને ધ્યેય સામે લડત આપી શકશે.

વિચારોના વમળમાં ફસાવા કરતાં વિચારોને જ પ્રશ્ન પૂછીને ઉકેલ લાવીએ તો ?! પોતાની જાતને પ્રેમ કરો નહિ કે પોતાની આદતોને અને ખામીઓને ! પોતાની ખામીઓ ઓળખી તેને સુધારતા શીખો અને મન પર લગામ રાખવાની આદત પાડો; જ્યાં સુધી મન પર લગામ નહિ ત્યાં સુધી જીવનમાં સફળતા નહિ.

જેમ-જેમ આપણે ખામીઓ શોધતા જઈશું, તેમ-તેમ સાચા નિર્ણયો તરફ આગળ જઈ શકશું. બધાના દષ્ટિકોણ જુદાં-જુદાં હોય છે. માટે અભિપ્રાય સૌ કોઈનાં લેવાનાં આપણે સમય, સંજોગ અને લોકો સામે લડત લડીને આગળ નીકળવાનું છે. મુખ્ય લડત છે. પોતાના જ મન સાથેની !!! હવે અઘડ જરૂર છે. પરંતુ અશક્ય નહિ. પોતાની જાતને જ સવાલ કરો - ક્યાં ક્યાં રહી ગઈ ? ક્યાં-ક્યાં પરિબળો બાધારૂપ થયા ? વાણી, વિચાર, વર્તન, તીવ્રઈચ્છા શક્તિ, આદત, માન્યતાઓ, સંસ્કારોનો સરવાળો એટલે આપણો સ્વભાવ. આપણે આપણા મન અને સ્વભાવ પર જીત મેળવી લીધી તો સમજો આપણો બેડો પાર !!

પોતાના મનની શાંતિ પોતાના હાથમાં છે:

તમે કેમ માની લીધું બીજાના હાથમાં છે ??

પરિતા જગદીશચંદ્ર પાતાળિયા

એસ.વાય.બી.એ.માઈક્રોબાયોલોજી

રોલ નં. ૪૮૮

મને તુ જોઈએ છે.

સવારની મીઠી-મીઠી ઝાકળ સાથે તારી યાદ જોઈએ છે.

ઠંડા પવનની ધીમી-ધીમી લહેર સાથે તારું સ્મિત જોઈએ છે.

આ કડકડતી ઠંડીમાં તારી હૂંફ જોઈએ છે.

કોઈકવાર રડી જતી મારી આંખોને તારો સાથ જોઈએ છે.

હું બેચેન હોવ તો તારો ખભો અને બાથમાં તુ જોઈએ છે.

મારી સફળતા અને નિષ્ફળતામાં તારો હાથ જોઈએ છે.

તારા ગુસ્સામાં થોડો પ્રેમ જોઈએ છે.

અને તારા પ્રેમમાં નિઃસ્વાર્થ ભાવના જોઈએ છે.

નથી મારા નસીબમાં તું છતાં તારો સાથ જોઈએ છે.

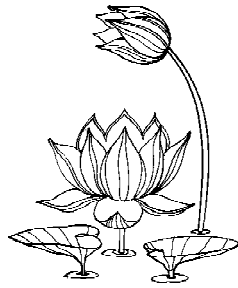
હા ખબર છે નથી નસીબમાં તું છતાં પણ,

મારા સ્વપ્નોના સ્મિતમાં તું જોઈએ છે.

બસ મને તું જોઈએ છે.

દિશા એ. પરમાર

એસ.વાય.માઈક્રોબાયોલોજી



કર્તવ્ય તરીકે નિયત થયેલું જે કાર્ય રાગ-દ્વેષ અને આસક્તિથી રહિત થઈને ફળની ઈચ્છા વિના મનુષ્ય કરે તેને સાત્ત્વિક કર્મ કહે છે.

ભેગા થવું એ શરૂઆત છે. ભેગા રહેવું એ પ્રગતિ છે,
પરંતુ ભેગા મળી કામ કરવું તે સફળતા છે.

મન કંપે છે.

- મમ્મી મારા કાંડા પર હંમેશા શોભતી ઘડીયાળ
આ કાંડા પર કાચની અંગડી કેવી રીતે શોભશે, એ વિચારીને મન કંપે છે.
- મમ્મીને દર વખતે નવું નવું જમવા બનાવડાવતી તારી પાસે,
સાસુને કેવી રીતે કહીશ, એ વિચારીને મન કંપે છે.
- ના મમ્મી...મે કુર્તી નઈ પેરુ; ટી-શર્ટ જ પહેરીશ,
એમ બબાલ કરતી, હવે સાડી કેવી રીતે પહેરીશ, એ વિચારીને મન કંપે છે.
- મારા ગળામાં રહેતું આઈ.-કાર્ડ, હવે મંગળસૂત્ર કેવી રીતે શોભશે,
એ વિચારીને મન કંપે છે.
- ઘડીયે ઘડીયે બધાથી રીસાય જતી, બધાને ખરા કેવી રીતે રાખીશ,
એ વિચારીને મન કંપે છે.
- ગમે ત્યારે ગમે તે બોલી જતીને, તમે બધા નાની સમજીને માફ કરી દેતા.
ત્યાં મારું મંતવ્ય તો મુકી શકીશને, એ વિચારીને મન કંપે છે.
- મમ્મી મે આજ મારા દોસ્તના ઘરે જઈશ, એમ કહીને નીકળી જતી.
તમને મળવા માટે પણ પરવાનગી લેવી પડશે, એ વિચારીને મન કંપે છે.
- મે મારું કામ સરખી રીતે કરી નથી શકતી,
આખા ઘરનું કામ કેવી રીતે કરીશ, એ વિચારીને મન કંપે છે.
- મે મને પોતાને સાચવી નથી શકતી, ઘરના બધાને કેવી રીતે સાચવીશ,
એ વિચારીને મન કંપે છે.
- અત્યાર સુધી તમને મમ્મી-પપ્પા કહેતી હતી. હવે આ હોદ્દા બીજા કોઈને કેવી રીતે આપીશ,
એ વિચારીને મન કંપે છે.
- જેને મેં ઓળખતી પણ નથી, એની સાથે આખી જીંદગી કેવી રીતે કાઢીશ,
એ વિચારીને મન કંપે છે.

દિશા એ. પરમાર
એસ.વાય.માઈક્રોબાયોલોજી

જ્યારે ઋતુ અને વૃક્ષ બંને બરાબર હોય ત્યારે જ સારા ફળ પાકે છે એવી જ રીતે
જ્યારે મહેનત અને નસીબ ભેગા થાય ત્યારે ચોચ પરિણામ મળે છે

દુસા ભાયા કાગ

હાઈકુ

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| ૧. તિરંગો મારો
શાન મુજ હૈયાની
અર્પું જીવન. | ૨. જીવન દીધું.
કરી પ્રાણનો ત્યાગ.
ગાથા વીરોની. |
| ૩. ઉત્સવ સમો
સ્વતંત્રતા કેરો દિ'
આજ આનંદ | ૪. રાષ્ટ્રપ્રેમ
હૈયે ઉમટે રોજ
આજ ઉજાણી |
| ૫. દેશભક્તિ
રોમ રોમમાં ખીલી
હું ભારતીય | ૬. પ્રજાસત્તાક પર્વે
ત્યજીને રાગ દ્વેષ
હર્ષ મનાવો. |

પરિતા જગદીશચંદ્ર પાતાળિયા
એસ.વાય.બી.એ.માઈક્રોબાયોલોજી
રોલ નં. ૪૮૮

તુમ એસે વીર બનો...

કથાએ હૈ અમર વહી જો શૌર્ય મે હો લિપ્ત ।
બનો તુમ વીર એસે જો સ્વયં સે હો દિપ્ત ॥
 ભુજાઓ મે હો બલ જિસકે મસ્તક પર તેજ હો ।
 વિચારો મે અડગતા હો જિસકે ચરિત્ર નિર્મલ હો ॥
સાહસ સે ભર હૃદય હો જિસકે મનમ ઉસકે કરુણા હો ।
તન વજ્ર સો નેત્રો મે જ્વાલા વાણી મે જિસકો અમૃત હો ॥
 હો જ્ઞાત ઉસે સન્માન દેના હો જ્ઞાન ઉસે ઉચિત જ્ઞાન લેના ।
 હો પ્રસન્ન સુખ સદા અહંકાર ઉસે લેષ ન હો ॥
હો જિસે સબકા વિચાર; પ્રસન્ન હો જો કરકે પરોપકાર ।
અદમ્ય હો સાહસ જિસકા; શૌર્ય સે કરે જો શૃંગાર અપના ॥
 કહ રહી માતૃભૂમિ અબ સબસે
 તુમ એસે વીર બનો તુમ એસે વીર બનો ॥

ઘુવ વ્યાસ
ટી.વાય.કેમેસ્ટ્રી
રોલ નં. ૨૫

ક્ષમતાનું પ્રશ્નાર્થચિહ્ન

ન સમજાય જો આ વાત અમારી,
તો પ્રેમથી સમજાવી દઈશું
એ ક્ષમતાનાં પ્રશ્નાર્થ ચિહ્નને,
આશ્ચર્ય બનાવી દઈશું.
ક્યાં વાત કરો માત્ર આભ આંબવાની,
તારા પણ ચમકાવી દઈશું.
ધીરજ તો રાખો ઘડીવાર,
ટોચે નામ સજાવી દઈશું.
બનવા સોનાની ખાણ અમે,
એવા તાપ પણ ખરાં સહ્યાં છે.
પરસેવાની સ્યાહી થકી,
ભવિષ્ય બનાવી રહ્યા છે.
ક્યાં વાત કરો માત્ર સાહસની
કર્મયોગ બતાવી દઈશું.
નહી વાત આ માત્ર વાતોની
જયઘોષ પણ સંભળાવી દઈશું.
શાને ઉદાસ છું ચાર મારા ?
તારી જીત તારા ઉત્સાહમાં છે.
ન થાય કોઈ સરખામણી,
તારું શોર્ય પ્રસિદ્ધ આ જહાંમાં છે.
ન વાત કરી હારવાની
હારને જીત બનાવી દઈશું.
શૂરવીર બનીને લડીશું,
ને ‘મિસાલ’ બનાવી દઈશું.

ધ્વનિશા મહેતા
એસ.વાય.બી.એસ.સી (ફીજીક્સ)
રોલ નં.૫૨

“Education is the most powerful weapon you can use to change the world.” – Nelson Mandela

*“A person who never made a mistake never tried anything new.”
– Albert Einstein*

પિતા

Everyone has a best person in their life. We all them "Father". He is the 1st superhero for his child. He is more handsome then any Bollywood Heros. He is more powerful then Avengers.

પિતા, કોઈ એમને પિતાજી કહે, કોઈ બાપુજી, કોઈ પપ્પા, તો કોઈ ડેડી અથવા ડેડ કહે. નામ અને ભાષા ભલે અલગ-અલગ હોય પણ ભાવના એક જ છે. દરેક પુરુષનું સ્વપ્ન હોય છે કે કોઈ એમને પપ્પા કહીને બોલાવે. પિતા બનવું એ દરેક પુરુષ માટે ઘણા સૌભાગ્યની વાત છે. એક પુરુષ જ્યારે પિતા બને છે. ત્યારે તેમની જવાબદારીઓ પણ વધે છે.

પિતા કેવા હોવા જોઈએ ? આ દુનિયાના દરેક પિતા એક્સમાન વિચારવાળાં હોય છે. “મારું પરિવાર ખુશ રહે” પોતાના પરિવારને ખુશ રાખવાની તમન્નામાં એ ભૂલી જાય છે કે એમની પણ કોઈ તમન્ના છે. તેઓ ભૂલી જાય છે કે એ પણ એક માણસ છે. એમને પણ આરામની જરૂર છે. બસ પોતાના પરિવારની ખુશી માટે પોતાની ખુશીઓ કુરબાન કરે છે. “મારા બાળકોના ભવિષ્ય માટે થોડું વધારે કામ કરી લે” આવી જ કામના કરે છે.

પિતા એક કઠોર વ્યક્તિત્વ ધરાવતા વ્યક્તિ છે. પિતા બહારથી કઠોર પણ અંદરથી મૃદુ હોય છે. પિતાની વજ્ર જેવી છાતીની પાછળ એક કોમળ હૃદય હોય છે. જેમાં માત્ર એમના પરિવાર માટે જ સ્થાન હોય છે. દરેક પિતા પોતાના સંતાનોના ભવિષ્ય માટે કઠોર પગલાં લે છે. એમની સાથે કઠોર શબ્દોમાં વાત કરે છે. એટલે પિતા બધાને કઠોર લાગે છે. અને માતા નરમ. માતા પોતાના બાળકોને સરળતાથી કહી શકે છે. કે, “બેટા હું તને ખૂબ જ પ્રેમ કરું છું.” પણ પિતા પોતાનો પ્રેમ શબ્દોમાં વ્યક્ત કરી શકતા નથી. પિતા પોતાનો પ્રેમ વ્યક્ત કરવા માટે પોતાના બાળકોને એમની મનપસંદ વસ્તુ લઈ આવે છે.

પિતા જ પોતાના બાળકો સાથે ઓછો સમય પસાર કરે છે. તેઓ સવારે ઘરથી જતા રહે છે. અને રાતે ઘરે આવે છે. રોજ ઠંડુ ભોજન જમે છે. કારણ કે એમના બાળકો ગરમ ભોજન જમી શકે. રોજ ઠંડુ ભોજન જમતાં આ વ્યક્તિ સ્વભાવ ગરમ કઈ રીતે હોય શકે ? રોજ રાતે થાકીને આવ્યા હોવા છતાં પણ આઈસ્ક્રીમ ખાવા માટે બહાર લઈ જાય છે. બાળકો માટે સારી આઈસ્ક્રીમ લે છે. અને પોતાના માટે એક સસ્તા વેનીલા કપથી કામ ચલાવે છે. દિવાળી ઉપર બધાને નવા કપડાં લઈ આપે છે અને જ્યારે પોતાના કપડા લેવાની વાત આવે ત્યારે હસીને કહે છે, “મારી પાસે તો ગયા વર્ષના કપડાં પણ એમ જ છે. મને નવા કપડાંની કોઈ જરૂર નથી” આવો વિચાર કરીને પોતાના બાળકોને સારા કપડાં અને ફટકડા લઈ આપે છે. ઘરનું બધું કામ તો માતા કરે છે પણ એ ઘરની બધી સગવડો તો પપ્પા જ કરે છે. આપણે જ છત નીચે સુરક્ષિત છે અને મજા કરીએ છે એ ઈમારતનો પાયો તો આપણા પપ્પા જ છે.

પિતા એટલે એવા વ્યક્તિ કે જે ધીરજ, સાહસ, સહનશીલતા, પુરુષાર્થ અને પ્રેમથી ભરપૂર હોય છે. પિતા એટલે એવા વ્યક્તિ જે કોઈ પણ પરિસ્થિતિનો હસતા મુખે સ્વીકાર કરે છે. ભલે પોતે અંદરથી ગમે એટલા ટેન્શનમાં હોય પણ પોતાના મુખ ઉપર ટેન્શનની એક પણ રેખા આવા દેતા નથી. પિતા એટલે એવા વ્યક્તિ જેમના મુખ ઉપર હંમેશા હાસ્ય હોય. પિતા એટલે એવા વ્યક્તિ જેમના મુખ ઉપરનું હાસ્ય જોઈએ તો આપણી બધી જ તકલીફ દૂર થાય. પિતા એક એવું વ્યક્તિત્વ છે જે. એમના જીવતા જીવત તો પોતાના પરિવારે કોઈ પણ વસ્તુની ખોટ નહિ પડવા દે. જ્યારે આપણે કોઈ મોટી મુશ્કેલીમાં પડી ગયા હોય અને બહાર નીકળવાનો કોઈ માર્ગ ના દેખાતો હોય ત્યારે આપણા પપ્પા આવીને આપણા ખભા ઉપર હાથ મૂકીને માત્ર એટલું જ બોલે કે, “બેટા હું છું ને.” બસ આટલું સાંભળતા જ આપણી અડધી તકલીફ દૂર થઈ જાય છે. દુનિયાની દરેક સમસ્યાનું સમાધાન એમની પાસે હોય છે.

એક પિતા જ પોતાના બાળકોને શીખવે છે કે સમાજમાં કઈ રીતે રહેવું. દરેક પરિસ્થિતિનો સામનો કઈ રીતે કરવો. એક બાળકની અંદરના આત્મવિશ્વાસનું કારણ એના પિતા જ હોય છે. જે દીકરા-દીકરી સાથે એમના પિતા હોય એ કઈ પણ કરી શકે છે, કારણ કે એમને વિશ્વાસ છે, “મારા પપ્પા મારી સાથે ઊભા છે તો હું શું કામ કરું છું ?”

પિતા એ એક કલ્પવૃક્ષ સમાન છે. જેમની પાસે માંગેલી દરેક ઈચ્છા પૂરી થઈ જાય છે. પિતા એટલે એવા વ્યક્તિ જેમની રોજ સાંજે ઘરમાં રાહ જોવાય છે. કદાચ ઘરમાં બારી એટલે જ હોય છે કે જરા જરા વારે બારીની બહાર જોઈ શકાય કે પપ્પા ક્યારે આવશે. પિતા એટલે એવા વ્યક્તિ જેમના ઘરમાં આવતા જ ફરીયાદોની લીસ્ટ ચાલુ થઈ જાય. પિતા એટલે એવાન વ્યક્તિ જે પોતાના બાળકો માટે ગાડીના ડ્રાઈવરથી લઈને એમનો ઘોડો પણ બની શકે છે. જેમની પીઠ ઉપર બેસીને આખી દુનિયા ફરવાનું સ્વપ્ન દરેક બાળક જોઈ છે.

પિતા પુત્રીના સંબંધની તો વાત જ નહીં થાય. પિતા એટલે દીકરીના રમકડાંના ઘરમાં આવેલા મહેમાન. પિતા એટલે એનું સૌથી પહેલું ટેડીબેર. પિતા એટલે દીકરીના બ્યુટીપાર્લરના ગ્રાહક. જેમના વાળમાં અલગ-અલગ પ્રકારની પીન અને રબર મારવામાં આવે છે. મમ્મીનો મેકઅપ એમને કરવામાં આવે છે. પિતા એટલે એવા વ્યક્તિ જે પોતાની દીકરીની પહેલી અમીબાના આકારની બળેલી રોટલી ખાઈને પણ અમૃતનો અનુભવ કરી શકે. પિતા એટલે એવા અમૃતનો અનુભવ કરી શકે. પિતા એટલે એવા વ્યક્તિ જેમને પોતાની દીકરીના માથા ઉપર પ્રેમથી હાથ ફેરવવા માટે સવારથી સાંજ સુધી રાહ જોવી પડે છે. જેની વિદ્યામાં સૌથી પહેલા એના પપ્પાને શોધવા પડે છે. દીકરીની વિદ્યા પણ એક ગજબની રીત છે. ન જાણે કોણે બનાવી છે. એક પિતા પોતાની દીકરીને એના માટે મોટી કરે છે કે એક દિવસ એને કોઈ બીજાને સોંપી દેવામાં આવે ? પિતા એટલે એવા વ્યક્તિ જે પોતાની દીકરીની વિદ્યા વખતે એક પણ આંસુ નથી પડતાં પણ જ્યારે એકલા હોય ત્યારે પોતાના એ આંસુ રોકી નથી શકતા.

પિતા એટલે એક દીકરા જ્યારે એના મિત્ર જે દરેક પરિસ્થિતિમાં એની સાથે ઉભા રહે એક ગુરુ જે એને દરેક પરિસ્થિતિ સામે લડતા શિખવાડે છે.

એક પિતાની કિંમત એમને હોય છે. જેમના પિતા એમની સાથે નથી હોતા. પિતા નથી હોતા એમને જીવનની દરેક નાની-મોટી મુશ્કેલીઓમાં એમને પિતાની યાદ આવે છે. “કાશ આજે પપ્પા હોતે તો આવા દિવસો નહીં જોવા પડત.” આ એ એક દીકરા અને દીકરીઓના શબ્દો હોય છે.

પોતાના પિતાની કિંમત જાણવી હોય તો એકવાર પોતાના ગામમાં એકલા ફરવા જજો અને બીજીવાર પોતાના પપ્પા સાથે ફરવા જજો. તમને તમારા પિતાની કિંમત આપોઆપ ખબર પડી જશે.

આપણા સમાજમાં એવું માનવામાં આવે છે કે દીકરી એના પિતાની લાડકી હોય અને દીકરો એની માતાનો પણ હકીકતમાં આવું કંઈ નથી હોતું. માતા-પિતા માટે દીકરા અને દીકરી સરખા જ હોય છે. એમના માટે કોઈ નાનું-મોટું નથી હોતું. એમના માટે બધા જ સરખા હોય છે. તેઓ બધાને જ એક સરખો જ પ્રેમ આપે છે.

પિતા મહાન હોવા છતાં એમના માટે ઓછા લેખો અને કવિતાઓ લખવામાં આવી છે. લેખકો પાસે શબ્દ જ નથી. પિતા માટે એક કવિ લખે છે.

“પિતા રોટી હૈ, કપડાં હૈ, મકાન હૈ । પિતા નन्हें से परिदे का बडा आसमान हૈ ।
પિતા સે ઘર કી આન, બાન और शान हૈ । પિતા સે માં કી ચૂડી, બિંદી और सुहाग हૈ ।
પિતા હૈ તો બચ્ચોં કે સારે સપને હૈ । પિતા હૈ તો બાજર કે સારે ખિલોનૈ અપને હૈ ।”

પિતા આપણા માટે આટલું બધું કરે છે. કોઈ સ્વાર્થ જોતા નથી. એમને એના માટે કંઈ નથી જોઈતું. પણ એમને પ્રેમ જોઈએ છે. માન જોઈએ, એક tight hug જોઈએ છે. આપણી પાસેથી એમને એકવાર Thanks you so much pappa, I love you pappa અને I need you for forever જેવાં શબ્દો સાંભળવા છે. આપણી પાસેથી અને આપણે એમને શું કહીએ છીએ. “પપ્પા તમે શાંત રહો, તમને ખબર નહીં પડે. આવુ બોલવા કરતા જો એમને શાંતિથી અને પ્રેમથી સમજાવતા હોય તો ?

તમન્ના ટી. પટેલ

એફ.વાય.બી.એસસી.-ડી, રોલ નં. ૪૯૧,

“मुझे है ईश्वर में विश्वास”

था एक सखा जिसे थीं बतानी एक बात

आतुरता से बोला वो

“मुझे है ईश्वर में विश्वास” ।

८४ लाख यानी बाद आया है वो क्षण ।

अरे । मानवी ही तो है उस ईश्वर का कण ।

आया वह माया में भूला वह सबको

लालच अहिंसा धनने गिरा उन सबको ।

जिन्होंने न जानामि योगं जपं नैव पूजा;

न पुण्यम न पापं न सुखं न दुखं ॥

जाना सब कुछ और भरा दिमाग;

फिर भी कम ना हुई पैसों की फिराक ।

करके उचित कर्म आत्म-साक्षात्कार को दे जगह;

दे थोड़ी प्रवृत्ति के बाद निवृत्ति को पनाह ।

इस ही अनमोल क्षण में सोच तू;

क्यों है मनुष्य योनि ही खास ?

द्वैत-अद्वैतवाद को है जाना,

तो क्यों यश, अहंकार है कमाना

जीवन-मरण, कार्य-कारण जब जाना तू ।

आत्मा का सूक्ष्म रूप फिर माना तू ।

बस ! थोड़ा साहस कर जा वहां

आनंदमय आत्मा रहती हो जहां

मुक्ति आत्मा ईश्वर न शब्द है वह;

वह तो है मानव के आकर्षण का केन्द्र !

अपनाया लालच लोभ इर्ष्या का साथ;

छोड़ दिया तूने ईश्वर का हाथ ।

असंतुष्टता फिर बड़ी सताए,

दुनिया की वे फिर लातें खाएं ।

प्रेम अहिंसा भक्ति के संग,

भरो जीवन में आनंद, विनम्रता सेवा के रंग ।

यही है धर्म इंसान का;

वैराग्य को जो वह सबमें लाता ।

उठ ! मानव और कब गौरव;

जान किमत मानव योनि की ।

स्वमुक्ति से सर्वमुक्ति का लक्ष्य साध;

एकता में ही बहुताओ को तू बांध ।

संतोष, ध्यान और विवेक के समीप;

है स्वमुक्ति का दिव्य गणित ।

जीवन में ला वैराग्य विनम्र भक्ति का रंग;

उठ मानव ! चल ईश्वर के संग ।

घन्यवाद

“There are plenty of difficult obstacles in your path. Don't allow yourself to become one of them.”

– Ralph Marston

“Only I can change my life. No one can do it for me.”

– Carol Burnett

ईशान बी व्यास

टी.वाय.झुओलोजी

बेटियाँ

जिंदगी

जो अपनी खुशी दबाकर,
दुसरो को खुश रखती है ।
जो अपने सपने दाद कर,
दुसरो के सपने सजाती है ।
जो बहोत कुछ सहेन करके,
दुसरो की ताकात बनती है ।
जो खुद पिंजरे में रेहकर,
दुसरो को उडना सिखाती है ।
जो अपनी मर्जी छोडकर,
दुसरो की मर्जी से जीती है ।
जो अपनी जरूरते भुलाकर,
सबकी ख्वाहीश पूरी करती है ।
जो जमीन पे रहकर,
सबको आसमान छुआती है ।
जो पापा की परी न बनकर,
अपने बाप का बेटा बनती है ।
जो सब दुःख अपने अंदर रखकर,
सबको सिर्फ खुशियाँ बांटती है ।
जो पूरी जिंदगी अपने लिए नहीं,
दूसरो के लिए जीती है ।
जो सबकी खुशी के लिए,
बलिदान त्याग पाती है ।
जो अपने आप को खोकर,
सबको साथ लाती है ।
बोलो उसे कुछ तो चुप रहेती है,
अपने मौन से बहोत कुछ सहेती है ।
धर की लक्ष्मीयाँ है उसे कहेते,
लेकिन सबसे ज्यादा आँसु भी
उसीसे है बहेते ।
प्यार से रहो तो पार्वती छोडो उसे तो महाकाली है,
मत ललकारो उसकी अंतरआत्मा को
ठान ले तो तबाही है ।
उसी में है शक्ति राजा को बनाने की,
उसी में है शक्ति राजा को रंक बनाने की ।

जिंदगी गुजारी नहि जाती जिंदगी जी जाती है ।
खुद भागती है, हमको थकाती है ।
किसी के लिए सुंदर ख्वाब है
किसी के लिए झूठा सपना ।
सब कुछ देकर
कुछ छिन लेती है ।
ये जिंदगी है यँहीं चलती है ।
कुछ भुलाती है कुछ याद भी रखाती है ।
हमें आजाद करके अपनी मर्जी से चलाती है ।
हताशा निराशा लाके, कई खुशियाँ भी लाती है ।
कभी कभी हँसाकर, कभी रुलाती भी है ।
हम उसे छोडना चाहते है, वो हमे थामना ।
हम उसे समझाना चाहते है
वो हमे उलजाना ।
कभी गले से लगाती है, कभी छोड जाती है
कभी साथ चलती है,
कभी बिछड जाती है ।
इंसान की अनकही मित्र है
देखो उसे हररोज एक नया चित्र है ।
पता उसका है ही नहि
फिर भी सब उसकी तलाश में है ।
मिल जाए कहीं पे, वो सब की सूखी प्यास है ।
हम उसे बाँधना चाहते है, वो बँधती नहीं ।
हम उसे रोकना चाहते हैं, वो रुकती भी नहीं ।
राज सभी उसमें छूपे है, समय आने पे चलती है ।
कभी ज्यादा शांत रहेके, कभी बहोत बोलती है ।
हर सुबह साथ उठती है हम शाम साथ ढलती है ।
ईस भागदोड में भूल गए उसे ये हमारी ही गलती है ।
सब के लिए उसका अलग अर्थ है ।
बिना उसके सब व्यर्थ है ।

Nandini H. Sargara

F.Y.B.Sc. (Micro)

Roll No. 346, Div. D

उठ ! जा देख उस मिट्टी को...

उठ ! जा देख उस मिट्टी को;
जिसमें बारिश कि बुंदोने स्पर्श है दिया
उठ ! जा देख पत्ते को; जिसमें सूर्य की किरणों ने है आसार लिया ।
कर महसूस जला अग्नि ढूँढ उसे जो पास है तेरे ।
पा के सके जान के उसे; कर रहा हूँ गुप्तगू
न है वोह मसे अलग न है वोह हमसे जुदा
बस ! था फर्क वहीं की था अस्तित्व हमसे रूठा ।
अब अस्तित्व को है जो जानना;
फिर मन को कर शांत चित्त को कर एकाग्र ।
पूँछ फिर कौन है तू, जान स्वयं को, पा स्वयं को, कर स्वयं को तू महसूस ।
देख वोह एक चिंगारी; जान उसे !
मान उसे पा उसे ! जी उसे ।
एकांत को लेकर साथ रख अस्तित्व को ।
फिर जानेगा कि है क्या यह;
मुक्ति, सेवा, करुणा, है गुण जिसके ।
फिर किया महसूस उस अस्तित्व को;
जिसमें एक था तत्व राज करता ।
जान उसी को, मानो उसी को, रटो उसी को, भजो उसी को !
हृदय के कमरों में है अभी वो बंद;
खोल के कमरें, पा के उसे
रख उसी को संग ।
करके संग फिर जान लिया कि
मुक्ति, करुणा, सेवा है जिसके दास;
वह प्रेमतत्व है तेरे ही पास ।

ईशान बी व्यास
टी.वाय.झुओलोजी
रोल नं.५३५

“Self-belief and hard work will always earn you success.”

– Virat Kohli

“LET’S TALK ABOUT GEN-Z”

The word Gen-Z means the generation of people born in the late 1990s and early 2000s. We are witnessing a new “Global Revolution”. Artificial Intelligence is going to impact everything. The job market, the way of studying in schools and colleges, the political system, Military warfare will be going to change. Then the question arises is this revolution is giving the security to the data, to the people in short “**Cybersecurity**”. In this regard, recently, Dr Pavan Duggal, Supreme Court lawyer and chairman of the International Commission on **Cyber Security Law**, suggested that India should have a dedicated ministry in terms of cybersecurity as it has much bigger and more comprehensive impact and relevance. **Australia** already has such a ministry, which reduces their threats. Our Cyber Security policy formulated in 2013, in dire need of update.

If the AI exists, then out of 7 quotients the main two quotients plays an important role that is IQ and EQ. The IQ is Intelligence Quotients which means intelligence, knowledge, facts that one possesses. For example we can say that the exams like IIT , JEE needs IQ. The EQ is Emotional Quotient which means emotional understanding and capability of oneself and others that helps with differing situations and people. The jobs which requires high EQ like HR, CEO and many more where they want to maintain every relationships such as with customers, teams, stakeholders and shareholders with a smile. The main contrast between these two quotients are IQ can be teach but the EQ cannot be teach it can improve by practice only. Then the question arises how the EQ can be improved? There are lots of solution, one of them is to force people to do those things which they think is not possible for them. In this case , they will try and even they get failed they will not give up as it is their assigned task but they will find solutions, this process will repeat until they get succeed. In this technique , their EQ gets stronger not only that their self confidence also arise in a good manner. In this way they become mentally strong and the feeling of “I can do anything” will arise in themselves positively and their insecurities get vanished. In this great AI world the most fearful thing is to become replaceable by the AI, clearly we know that the work of IQ can be done by AI easily but the work of EQ cannot be done by AI, because it is related to lead people. For example: The PM of the country, the CEO of the company, the job of finance or invest banking cannot be replaced AI. As these kind of job based on human emotion , AI can be part of these kind of job but it cannot be replace the human.

The dark reality of the Gen-Z are they are focusing on result rather than process not only that they didn’t even get the results, but they are showing it off. In simpler form we can say “ALL TALK NO COCK”. In the world of Gen-Z either a lot is happening to hustle in this world, to achieve something. In the opposite scenario nothing is happening means there are these type of people where they have creating feeling in themselves like this world is not belong to them. Maybe this problem is arises due to attached themselves to result not progress means as soon as they lead towards anything, they won’t see the result, that is instant results. So they just quit over it and it continues, then quitting becomes a habit.

Is AI is destroying our humanity? Don’t get me wrong about the technology, everyone is using technology from the first moment they get up for every aspect in their life. Despite of these obvious benefits of technology, they are eradicating fundamental values that are

embedded in prior generation specifically **TRUST, TRUTH and PATIENCE.**

Trust :

In older generation there is a blueprint for everyone life, if the person work hard and study, after getting degree that person's job is fixed. Today it is not the case many of the system are creating to eliminate the humans. Frederick Winsor Taylor once said, " **In the PAST the MAN has been FIRST. In the FUTURE the SYSTEM must be first**". AI has revolutionized so many jobs, now we can say a master degree may no longer to be enough to guarantee us a stable job for life. **Truth:** Due to AI, we can say the media role as the gatekeeper of truth is gone. Anyone can share anything on the internet regardless of its accuracy or truthfulness. In fact, lies has a tendency to spread faster than the truth, and it does in the Internet.

Patience :

In this AI world every information gets on the fingertip in seconds, the people quit on a particular site if it not opens in maximum 2 seconds. Due to this Gen-Z facing lack of consistency and patience. If we expect our relationships and our skills to work as fast as we expect our Wi-Fi, we will have no persistence when it come to the most important part of our life that have to be nurtured by our friends, families, communities and passions.

There is a very beautiful quote which says that, "**You can't stop WAVES, but you can learn how to SURF**". we can take advantage of the platform that only Gen-Z has been offered at such a early pace of our life. But recognizing the ethics which is taught by our prior generation. To keep this beautiful world more reliable and trustworthy.

Swathy Sunil (TYBCA)

Roll No. 40

I hate Winter !

I don't want to go out;
'Coz you know I want be able to give a pout.
I always wear a muffler,
I always wear a sweater
But I don't known why, I alway Shiner a little.
It's going to snow and I will start to freeze;
You like to take selfies, but I hate these.
You like skimming, I like sitting with a sip of not chocolate coffee.
I wont' give you even a toffee But if you ask,
I'll throwe you into the valley !
Let's go home,
And stop to be a thinker,
'Coz you know.
I hate winter

Dona Vieyra

S.Y.BCA

YOU'RE NOT TRULY LOST

In the depths of the maze, i thread
A path unknown, where my heart's thread,
here's my resilience exists, cold and gray,
In the feeling of being lost, i find my way.
A maze of doubts, a desk of stain,
In the wilderness of my unspoken pain,
I stumble, I stead, I search for a sign,
In the feeling of being lost, my soul does shine.
Amidst the chaos, a whisper of grace,
I seek my bearings in this bewildering space,
For in the darkest night, a star is tossed,
In the feeling of being lost, I find what's truly crossed.
The compass within, it guides my soul,
Through trials and tribute that make me whole,
In the midst of the storm, I pay the cost,
In the feeling of being lost, I discovered what's embossed.
Embrace the unknown, the uncertain, the wild,
For in that journey, your spirit's beguiled,
In the heart's deepest void, no matter the cost,
In the feeling of being lost, you'll find you're not truly lost.

Divya Sharma
S.Y.BCA

*"When you reach the end of your rope, tie a knot in it
and hang on." – Franklin D. Roosevelt*

*"Always remember that you are absolutely unique.
Just like everyone else." – Margaret Mead*

*"Your time is limited, so don't waste it living someone else's life.
Don't be trapped by dogma which is living with the results of other
people's thinking. " – Steve Jobs*

Gender Inequality

"It is time that we perceive gender on a spectrum instead of two sets of opposing ideals".
- Emma Watson.

Few years back, back in school, I recall, one of my teacher advising boys to focus on studies, building a career, as someday, they would grow up to be young men with the responsibility of raising a family, unlike girls, whose good grades and successful career would not matter, as eventually, they are supposed to get married and settle down as housewives. Another such instance, I recall was when one of my cousins asked her four year old son to stop crying as he is a boy and boys don't cry".

The above two incidents are an example of how individuals are treated in an unfair and biased manner, based on their gender and this is called gender inequality. This inequality happens because of socially constructed gender roles. For example, women are expected to do all the household chores as the society has labelled it as a set of feminine work and that it is the responsibility of only women to do all the household work.

Even today, in many parts of the world, women do not have the freedom to voice out their opinions. Even the most basic right like right to education access to proper healthcare, etc. are curtailed. As a result, they miss out on so many opportunities to grow individually. Further more, the lack of healthcare leads to poor health conditions and even death in many cases.

Incidents of violence against women are on the rise and this is a result of sexism and patriarchy. All these factors take a toll on a woman's emotional, mental and physical well being, making it tough for her to progress in life.

But gender inequality is not just about unfair treatment towards women only, instead all genders. It affects every gender in some or the other way. For instance, boys, from a very young age are taught not to be emotionally expressive, as it could make them less masculine, they are asked to be strong implying that being emotionally expressive is equal to being weak, which is incorrect. But we don't often talk about how gender stereotypes affects men too. Boys are raised in such a way that they do not feel free to be sensitive and express themselves this in turn takes a toll on their mental and emotional wellbeing which hampers their holistic growth.

Hence it is of vital importance to establish gender equality, not only for individual wellbeing, but also for the progress of a society. From childhood itself, it must be taught, that no gender is superior or inferior, that no duties are attached to a particular gender. People must be given opportunities in every field based on their skills and abilities, rather than based on gender. We must create an environment, where everyone, regardless of their gender, must feel free to be strong and sensitive alike.

So, we must raise our voice against gender inequality, to bring about a positive change, which will be beneficial, not only for the present generation, but also for the generation to come.

**“CLASSIFICATION AND TYPES OF NATURAL
DYES : A BRIEF REVIEW”**

ABSTRACT :

In this paper reviews, the natural dyes are made from plants, animals, minerals and, insects using environmentally-friendly solvents. Dyeing is a complex, specialized science. Nearly all dyestuff is now produced from synthetic compounds. This means that costs have been greatly reduced and certain application and wear characteristics have been greatly enhanced. But many practitioners of the craft of natural dyeing. With the improvement of living standards, everybody is very much conscious about environmental protection and health safety. Natural dyes have attracted more attention to the industry due to exhibiting better biodegradability and more compatibility with the environment. The chapter contains a brief review of natural dyes from their advantages and disadvantages and their classifications and types of natural dyes.

INTRODUCTION :

Dyes for textile dyeing can be divided into two main categories, natural and synthetic dyes. Since prehistoric times natural dyes is used for coloring food substrate, leather as well as fibers like wool, silk, and cotton. At present synthetic compounds are used for dying textile materials and they cause water pollution as well as waste disposal problems because these are non-biodegradable and carcinogenic. These problems can be solved by the use of natural dye. Natural dyes, also known as natural pigments, are mainly derived from plant roots, stems, leaves, flowers, fruits, animals, or natural-colored ores. Most natural dyes are vegetable dyes, the main sources of which are various parts of plants such as roots, stems, seeds, barks, leaves, and wood. There are also other biological sources such as fungi, snails, insects, etc. Natural sources were the main source of textile dyes before chemically dyeing. If we compared natural dye with synthetic dye then natural dyes are found eco-friendly and they have no carcinogenic or allergic effect for human beings especially for dyers.

OBJECTIVE :

The main objective of this paper is therefore to study the application of natural dyes on textiles. To address the main objective the following specific objectives were included; such as identifying the advantages and disadvantages of natural and its classification and types.

NATURAL DYES :

Natural dyes are color substances obtained from natural sources. Natural dyes are used for all types of textile dyeing and printing until the middle of the nineteenth century. The use of natural dyes was reduced due to the advent of synthetic dyes, though they were economical and possess excellent fastness properties. However, the growing consumer awareness of the harmful impact of synthetic dyes, concern for the environment worldwide, and stringent environmental laws lead to the revival of natural dyes. Natural colors are beautiful to behold. Coloring matter extracted from the roots, stems, leaves, or barriers and flowers of various plants has various expectations.

ADVANTAGES OF NATURAL DYES :

* Natural dyes are extracted from natural sources and hence they are eco-friendly

* Produces soft and soothing colors.

DISADVANTAGES OF NATURAL DYES :

* Natural dyes are difficult to store * Dye extraction is a time-consuming process

CLASSIFICATION OF NATURAL DYES : Natural dyes are classified into three types based on the source of origin namely vegetable dyes, animal dyes, and mineral dyes.

Henna: The dye is extracted from the dried leaves of the Henna plant, *Lawsonia inermis*. It produces yellowish-orange color. It is suitable for dyeing wool and silk fibers.

Turmeric: It produces shades of yellow on fabrics. It is suitable for dyeing cotton, silk, and wool. The yellow dye is extracted from the ground root (rhizome) of the turmeric plant (*Curcuma longa*).

Logwood: It may also refer to members of the genus *Xylosma*, part of the willow family. The dye is extracted from the core heart of the logwood tree, it creates black color.

ANIMAL DYES : The red-mouthed rock shell was one of the main sources of Tyrian purple and the study blames its collapse on rising sea temperature. Phoenician purples and BIBLICAL BLUES are the most royal and sacred of all ancient dyeing were produced from Levantine sea snails of the family *Muricidae*. These mollusks may have been in use for the production of the royal purple pigment.

Lac Dye This dye is extracted from the fluid secreted by the lac insect (*Laccifer lacca*), which lives on the twigs of the banyan trees and other varieties.

MINERAL DYES : Mineral dyes are colorants derived from minerals or mineral compounds. These dyes are often naturally occurring and can be sourced from various minerals such as ochre, hematite, azurite, malachite, and others. They are commonly used in traditional crafts, artistic endeavors, and sometimes in industrial applications for coloring materials like ceramics, textiles, and cosmetics.

INSECT DYE : Insect dye also known as natural dyes derived from insects, are colorants extracted from various insects or insect-related sources. One of the most well-known examples is cochineal dye, which is obtained from the cochineal insect found on cacti. Another example is shellac, a resin secreted by the lac bug, which is used as a dye and wood finish. These insect dyes have been used historically for coloring textiles, cosmetics, and food products.

CONCLUSION : In conclusion, natural dyes offer a host of benefits for human use. During the last few years, many articles discussing natural dye have been published. This review is an attempt to highlight the undesirable effect of synthetic dye on the environment and human health. Natural dyes supposed to be a cheap, nontoxic, renewable, and sustainable resource with minimal have attracted the attention of the scientific community to use them in a variety of traditional and newly discovered application disciplines. Thus there is a need for many more active types of research to build a knowledge base and database with the production of natural dyes is important to human healths.

Vismaysinh Haribhai Nakuim

TY B.Sc (Chemistry)

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THE CHEMISTRY BEHIND ARTIFICIAL RAIN

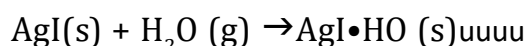
Artificial rain, also known as cloud seeding, is weather modification technique used to induce precipitation. It introducing substance into cloud to alter their microphysical process, ultimately leading to the Formation of rain or snow. the chemistry behind artificial rain is fascinating and involves a deep understanding of cloud dynamics and the properties of various seeding agents.

One of the most commonly used seeding agents is silver iodide (AgI). Silver iodide has a similar crystal structure to ice, making it an effective nucleus around which ice crystal can are Form. Silver iodide particles are dispered into clouds either by aircraft or ground based generators. these particles Serve as nuclei For the condensation of water vapor, promoting the formation of ice crystals.



The process begins when water vapor in the cloud condensed onto the silver iodide particles, forming tiny ice crystals. As these crystals grow larger, they eventually become heavy enough to fall as precipitation, such as rain or snow

chemical reactions also play a role in cloud seeding for example, in the case of silver iodide, the reaction between silver iodide and water vapor leads to the formation of ice crystals.



It essential to consider environment and ethical concerns associated with cloud seeding such as potential with impacts on ecosystems and water resources, artificial rain can provide much needed water in arid region or during droughts, its long term effect on environment require careful monitoring and regulations.

Ujjval Dedhiya
T.Y.B.Sc (Chemistry)

Chemistry can be a good and bad thing. Chemistry is good when you make love with it. Chemistry is bad when you make crack with it.

Adam Sandler

Prosody of Borderline**By Ritam**

Poetry is a healing genre for me. It allows me to stop, take a pause, and meditate.

Prosody of Borderline by Ritam is a collection of prose and poetry centred on the mental health struggle and carries the sense of urgency to address it. It effectively focuses on the stigma placed on mental illness in this society and what one goes through in one's head.

Trauma, mental health, and borderline personality are some of the very sensitive topics. We find them taboo and continue to maintain a hushed silence around them. In reality, we should be talking more about them and consider them as normal as any other bodily illness.

This collection addresses these subjects and attempts to initiate a dialogue around them. The poetess has used imagery and metaphors to bring out the raw emotions in their authentic form. Be it tears, darkness, or pain of experiencing tumultuous emotions, this book dwells deeper with words as tools and boldly unveils the complexities of the human mind, absolutely enjoyed reading this collection especially the prose that hit home. I resonated with quite a few pieces and found myself deeply affected by their relatability. The vivid depictions created through words and their skilful articulation left me in wonder.

Grief comes to the surface, pain comes face to face; We no longer can hide, what continues to be a perpetual phase.

Ritam has tried to express the delusions and vulnerabilities of a borderline personality and does so with ease. That ease connects the reader to her expressions which are nothing but beautiful. It is the kind of book I will revisit whenever I want to immerse myself in some good poetry.

So while it's mostly dark, I'd recommend it to poetry lovers only if they are in a headspace to deal with complex and painful emotions.

Bhumit Devnani

T.Y.B.Sc Electronics

Roll No. 372

“Failure will never overtake me if my determination to succeed
is strong enough.” – **Og Mandino**

Tuesdays with Morrie

By Mitch Albom

“There is no formula to relationships.”

Morrie said so in Tuesdays with Morrie. Don't you think it's beautiful and profound?

We often read about how one should approach relationships in their lives. How one should build upon the basics and lead it up from there. How one has to negotiate their way through relationships; in business, more so. A give and take of sorts.

But what if you choose to go the other way?

Relationships need nurturing that goes beyond the bounds of formulas. There is no perfect way to show how one should build a relationship. There is no perfect fit. No one size that could fit all. No calculations, no dynamism of equations. Each relationship is different, with its different set of demands. You cannot treat all of them in a monotonous singular fashion. Applies to all the relationships we build in our little worlds.

Morrie adds, “They have to be negotiated in loving ways, with room for both parties, what they want and what they need, what they can do and what their life is like.”

So friends, to build a relationship you need to embrace it fully without any inhibition. Feel deeply and detach in awe of the impermanence of life that moves through us. Be kind, be nice, be loving, be patient. Be present.

Love because it's important for our existence. Love is when we are as concerned about someone else's situation as we are about our own. Love, not for some goal, but for collective good. Love, for that's what life is essentially made of.

Approach those relationships in ways that suit them most. With love, with a generous dose of kindness, and empathy. Live in the moments of absolute authenticity and look for the meaning we can make in our lives. That's all that matters

Bhumit Devnani

T.Y.B.Sc. Electronics

Roll No. 372

“In the end, it's not the years in your life that count.
It's the life in your years.” – **Abraham Lincoln**

“I am indeed a king because I know how to rule myself.”
– **Pietro Aretino**

Twelve Minutes Later

By Vedshree Jha

I am a fan of character-driven storylines and a big sucker for stories that delve into the human mind and emotions. While the reading slump had hit me hard this time around, I was pleasantly surprised after reading *Twelve Minutes*. Real characters and their predicaments come up beautifully in this book.

Twelve Minutes by Vedashree Jha is a contemporary fiction revolving around Aryan who is scared of 'him.' This 'he' continues to scare him, haunt him, chase him, leaving poor Aryan all tired. He is made fun of by others, he walks with his head down, he doesn't speak up and face his bullies. He is happy to be at the receiving end of injustice. Why?

Then he comes across Rekha, daughter of his boss, who happens to become Aryan's subordinate. In the due course of time, the two bruised souls find solace in each other. Besides this, we have other characters who are dealing with their own monsters.

Twelve Minutes traces their journeys and brings out the raw truth of fragile human life.

Jha weaves a realistic story that delves into the human psyche and creates a magical depth. Her writing is precise and strikes the right chord with the readers. I was intrigued by her character sketches because they aptly showed the reality of human lives. The nuances of those sketches were a joy to read. Jha's take on pain, discussion around mental health, and the portrayal of anxiety and love have come together to create an interesting narrative. The narrative takes into account the backstories of each character, making for an amazing reading experience. Although the book claims to be a thriller, it is less of that because it wouldn't give someone chills. However, it is surely unpredictable and the author has tried to keep the mystery element alive till the end of the book.

I'd recommend this book to everyone out there because of its hooking story and most importantly, stellar writing.

Bhumit Devnani

T.Y.B.Sc Electronics

Roll No. 372

“Make each day your masterpiece.” – John Wooden

* * *

“Learn from yesterday, live for today, hope for tomorrow.

The important thing is not to stop questioning.” – Albert Einstien

* * *

“Opportunity does not happen, You need to create them.”

Arc**By Ankita Shreeram**

One hour amidst winding woodsy paths
And secret staircases and hidden tuneful birds
Grew wings in my memory,
Stretched time,
Let moments wander
Into the realm of hours.

Now when I dance backwards into time,
I find the music slower, prettier,
Our words longer, more punctuated,
And it almost makes up
For the sorry shortness of that golden hour.

It's funny how
I remember the silences better than the words
And the fleeting magic better
Than the emptiness that came after.

Now when I dance backwards into time,
I can smell the sunny, sweet scent of the southern air,
I can see the trees watching us with languid eyes,
I can feel the sweat making ticklish inroads
Down my back,
I can hear the buzz of honey-thirsty bees,
And I wonder how much of it is embellished memory.
And it's funny how
I remember the light on your hair
Better than the light itself
And the arc of your smiles better
Than the arc of the path that brought us there.

Biren M. Chaudhary

T.Y.B.Sc. Chemistry

Roll No. 15

Microbial Allies : How understanding Genetics Enhances Human Health

All of us have abundant microorganisms that live together in and on the human body. These vast community of microorganisms is referred to as microbiome. When Orson Welles said, "We are born alone, we live alone, we die alone", we here exist in symbiosis an amazing term that refers to different organisms living together. From the time baby is born it leaves its sterile world of its mother's womb and is immediately colonised by her vaginal microbes. Each of our body parts has its own microbial fauna. The human skin is the realm of *Propionibacterium*, *Corynebacterium*, and *Staphylococcus*, while *Bacteroids* are spot over the gut, *Lactobacillus* overlook the vagina and *Streptococcus* dominates the mouth. This complex microbial community particularly in the gut influences various aspects of human health including digestion, immune function and even mental well-being. As we know that the gut is home to trillions of microbes that help in breaking down complex carbohydrates, extracting nutrients and producing essential vitamins. Beneficial bacteria in the gut act as a barrier preventing harmful pathogens from gaining a foothold. They compete for resources and produce substances that inhibit the growth of harmful microbes, contributing to the body's defence against infections. So, understanding and maintaining the balance of these microbial communities can have profound effects on human health. By recognizing the symbiotic relationship between humans and their microbial allies, researches and health care professionals can explore interventions such as probiotics and prebiotics to promote healthy balance in the gut microbiome, positively impacting digestion, immunity and overall well-being. Then question might arise that how understanding genetics enhances human health? As we know DNA it's just like instructional manual for microbes. It contains the information needed for their growth and functions. While RNA helps read the instructions from DNA and makes proteins, microbes need to do their jobs. Whereas gene expression is a fundamental aspect of how living things including microbes carryout their activities and respond to their environments. So, understanding the genetic mack up of these microbial allies is the key to unravelling their specific contributions to human health. The genetics of microbes play a pivotal role in shaping their interactions both with each other and with the human body. Microbes have specific genetic traits that determine their ability to compete for resources or cooperate with each other. While some microbes possess genetic instructions for forming biofilms attached to the surfaces. This genetic capability impacts how microbes adhere to surfaces within the human body such as the gut lining or dental surfaces, influencing their collective behaviour. Microbial genetics dictate the ability of microbes to adapt to different microenvironments within the human body. This adaptability is crucial for their survival and persistence in diverse niches, such as the acidic environment of the stomach or the oxygen rich conditions in the respiratory tract. Microbial genetics offers valuable strategies for

preventing and treating diseases, especially those linked to microbial imbalances. Such as in antibiotic development microbial genetics aid in the development of antibiotics that selectively target harmful microbes while preserving beneficial ones. This approach minimizes disruptions to the microbiome and reduces the risk of antibiotic resistance. While genetics has become more prominent in scientific research and healthcare its true that the understanding of genetics may vary among the general population. Genetic research is advancing rapidly leading to new discoveries and technologies. Microbiology and genetics though distinct fields are inherently interconnected and their combination holds significant promise for advancing human health. Recent advancements in genetic technologies including high throughput sequencing and CRISPR-Cas9 gene editing have empowered research to explore the interplay between microbial and human genetics in extraordinary detail. So, microbiology and genetics are like exploring a hidden world within us. Its not just about complex codes its about unlocking the secretes of our own microscopic allies and realizing how this knowledge can lead to personalized health solutions. It's a journey into the tiny universe that shapes our well-being, making science like an exciting adventure waiting to be discovered!

Purva Dave
Roll No. 459
T.Y. Microbiology

*One language sets you in a corridor for life. Two languages open every door along the way. — **Frank Smith.** Tweet this!*

*Our language is funny – a ‘fat chance’ and a ‘slim chance’ are the same thing. — **J. Gustav White.***

*The English language is nobody’s special property. It is the property of the imagination: it is the property of the language itself. — **Derek Walcott.** Tweet this!*

*The English language is so elastic that you can find another word to say the same thing. — **Mahatma Gandhi.***

Explosive Science

The largest explosion that even happened on the surface of the earth in the recorded history and it happened in 1883 and it happened on the volcanic island KRAKATOA and there was an explosion which was equivalent to roughly 200 million tons of TNT. The shock wave travels around the earth seven times the bang was heard three thousand miles away.

The theory about how explosion occurs :



The volcano had been erupting and throwing out lava and left behind a gigantic underground chamber and sea water rushed in a filled the chamber. The walls of the chamber were very hot the sea water turned to steam. The pressure built up and eventually there was an explosion.

We can also do that using chemistry and chemicals that explode we call those explosive.

Gunpowder

Around thousands years there was only one practical explosive which was known as "GunPowder". Gunpowder is just simple mixture of three ingredients :



- 1) Charcoal Powder : act as a fuel
- 2) Sulphur : act as a fuel & help to promote burning
- 3) Pottasium Nitrate : also known saltpeter and act as concentrated source of oxygen.

When we take one and half grams of gun powder in the cardboard tube which is sealed with tape very tightly . The gunpowder as it burns it produces energy in the form of heat. We get this feedback leading to very rapid combustion we called that an explosion.

Use : Gunpowder and it's alternative derivatives used in firework & pyrotechnics.

Nitrogen triiodide



It is black solid. The molecule consists of nitrogen bonded to iodine but the bonds are easily disturbed and when that happens an explosion takes place and this will be quite a loud explosion on giving gentle tap to it.

Use : It is used in car air bags.

Nitroglycerin

Nitroglycerine is a very sensitive chemical. When we place nitroglycerin on the filter paper and hit it with hammer.



It will be explode. We called this Detonation effect. Nitroglycerin has quite a reputation for being dangerous material that's because in the early days there were a lot of accidents when it was being transported and although nitroglycerin is an extremely powerful explosive. Alfred Nobel solved this problem and he tried Combining the nitroglycerin with other material in order to make it less sensitive & one day he hit that material which is Kieselguhr. It is very absorbent and can absorb many it's own weight in nitroglycerin. It makes nitroglycerin less sensitive. He called this material Dynamite. It is very safe to store & transport.

Use : Into borehole, In mines, Tunnelling.

Vandan S. Prajapati

T.Y.Chemistry

Roll No.109



I figure I've done what I could do, more or less, and now I'm going back to being a chemical; all we are is a lot of talking nitrogen, you know.

Arthur Miller

Grief is an element. It has its own cycle like the carbon cycle, the nitrogen. It never diminishes not ever. It passes in and out of everything.

Peter Heller

Nitrogen fertilizer is used on all crops produced in this country, but it is a key plant nutrient to produce corn a critical crop to Illinois farmers.

John Shimkus





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