

# NAVDRISHTI

A Source of Inspiration

2023



Vidya Bhawan Polytechnic College, VBRI, Udaipur

(ESTD. 1956)

(Run & Managed by Vidya Bhawan Society)

## VIDYA BHAWAN SOCIETY

### Objectives

- ⌘ To promote sound education which implies full and harmonious development of the individual according to his or her aptitude with a sense of social responsibility.
- ⌘ To develop a broad and open-minded outlook on life and a healthy sense of citizenship.
- ⌘ To disseminate sound ideas on education among parents, teachers, guardians and people in general.
- ⌘ To promote vocational and professional education based on employment needs of the society at large.
- ⌘ To conduct and promote educational experiments and research.
- ⌘ To promote social, educational and economic development of rural and urban society.
- ⌘ To promote adult literacy and continuing education.
- ⌘ To promote environmental causes and conservation.
- ⌘ To promote values based on equal respect for people of all races, religion, gender, social and economic background.

### Office Bearers of Executive Committee

Sh. Ajay S. Mehta

President

Sh. Hansraj Choudhary

Vice President

Sh. Gopal Bumb

Honorary Secretary

Sh. Anil Shah

Honorary Treasurer





## विद्या भवन पॉलीटेक्निक महाविद्यालय

उदयपुर (राज.)

( विद्या भवन सोसायटी द्वारा संचालित )



Best Polytechnic Award, 2003, Outstanding Institution Award, 2014

Best CDPT Scheme Implementing Institute, 2017

Conferred by NITTTR, MHRD, Govt. of India

ISTE Best Student Chapter Award, 2018, Conferred by Indian Society for Technical Education

## नावदृष्टि

( संस्करण 2022-23 )



## अन्दरूतम में



### वन्दना गीत

अन्तरतम में ज्योति भरो हे।

जहाँ-जहाँ नत मस्तक पाओ,  
वहाँ-वहाँ युग चरण बढाओ मेरे मंगलमय!

दुर्बल पर निज कर पल्लव सबल धरो हे।  
अन्तरतम में ज्योति भरो हे।

जहाँ-जहाँ पर देखो कारा  
वहीं बहाओ करुणा धारा

बन्धन मुक्त करो युग-युग  
पाप ताप अभिशाप हरो हे।

अन्तरतम में ज्योति भरो हे।

### शाश्वत प्रार्थना के भाव

“असतो मा सद्गमय”

मुझे असत् से सत् की ओर ले जाओ।

“तमसो मा ज्योतिर्गमय”

मुझे अन्धकार (अज्ञान) से प्रकाश (ज्ञान)  
की ओर ले जाओ।

“मृत्योर्मा अमृतं गमय”

मुझे मृत्यु (नश्वरता) से अमरत्व  
(अनश्वरता) की ओर ले जाओ।





## ज्योति भये हे...

“प्रार्थना – तू ही राम है तू रहीम है”

तू ही राम है तू रहीम है,  
तू करीम, कृष्ण, खुदा हुआ,  
तू ही वाहे गुरु, तू ईशू मसीह,  
हर नाम में तू समा रहा।

तू ही राम है तू रहीम है,  
तू करीम, कृष्ण, खुदा हुआ,  
तेरी जात पाक कुरान में,  
तेरा दर्श वेद पुराण में,  
गुरु ग्रन्थ जी के बखान में,  
तू प्रकाश अपना दिखा रहा!

तू ही राम है तू रहीम है,  
तू करीम, कृष्ण, खुदा हुआ,  
तू ही वाहे गुरु, तू ईशू मसीह,  
हर नाम में, तू समा रहा,  
अरदास है, कहीं कीर्तन,  
तू ही वाहे गुरु, तू ईशू मसीह,  
हर नाम में, तू समा रहा।





## Editorial

**“Creativity is Intelligence having Fun”** said Albert Einstein.

We, the editors of Navdrishti annual magazine 2022-23, believe this quote is absolutely and impeccably true. Navdrishti, is an assortment of a varied spectrum encompassing experiences, ingenuity, imagination and art which we feel is that spark of creativity that we VBPCians have! It gives us immense gratification when we look at this joyride, and to present to you, the fruit of our endeavour.

The magazine is a comprehensive magazine as it contains valuable articles from the students who want to convey about their interests and creativity. Navdrishti is a commitment to offering its readers a mix of newsworthy, engaging and thought-provoking articles about the College; a respect and concern for the Vidya Bhawan's history, mission and values; a concern for maintaining the institution's commitment to open discourse; a commitment to diversity of interest, opinion and representation; and a concern for readability and attractiveness of presentation.

### Team Navdrishti

Dr. Anil (Patron)  
Sonu (Chief Editor), Darshana (Co-editor),  
Priyanka, Sikander, Manisha, Pritesh, Dr. Vikram.





## STUDENT EDITORS TEAM



AAQIB



LEKHITA



BHUMI



MOHIT



DIVYANSH



RUPESH



KANISHKA



YASH

# NAVDRISHTI 2022-23

## C O N T E N T S

संस्कृत भाषा विभाग, दिल्ली विश्वविद्यालय





## President's Message

*It is with pleasure to offer greetings to the Polytechnic for its annual issue. The Polytechnic straddles the world of technology and the age old quest for social justice by Vidya Bhawan. It is indeed to the credit of Vidya Bhawan Polytechnic that it has done so much not only for its students but also for society. Its work on water conservation and also sanitation is exemplary. One day I hope it will combine policy advocacy and research with more constructive work in the bastis of Udaipur.*

*Amehta*

Ajay S Mehta





## Principal's Message

*Since its establishment in 1956, Vidya Bhawan Polytechnic has remained dedicated to nurturing socially and environmentally sensitive technical professionals. Offering a diverse range of diploma programs and specialized courses, the college takes immense pride in the holistic accomplishments of its students, extending beyond academic success.*

*The numerous accolades earned by the college, including being recognized as the 'Best Polytechnic' in 2003, receiving the 'Outstanding Technical Institution' award in 2014, and being honored as the 'Best Community Development through Polytechnic*

*Scheme Implementing Institute' in 2017 strongly emphasize the steadfast dedication to providing high-quality technical and skill education, aiming to make a real difference in both the community and industries.*

*Furthermore, the 'ISTE Best Student Chapter of Rajasthan Award' in 2018 from the Indian*

*Society for Technical Education stands as a testament to our focus on nurturing well-rounded, forward-thinking technical professionals.*

*However, despite these notable accomplishments, the Polytechnic remains unwilling to become complacent. The vision of the institute transcends mere recognition; rather, it is rooted in continuously striving for global excellence.*

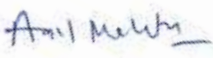
*The aim of the Polytechnic is to establish a unique identity as a pioneering institution, setting new benchmarks in technical education and innovation.*

*As the Polytechnic celebrates its past accomplishments, it enthusiastically looks towards a future filled with more remarkable milestones and substantial contributions to the field of technical education.*

*Together, the Polytechnic team embarks on the inspiring journey towards unparalleled excellence.*

*I am delighted to extend congratulations to each member of the editorial team for the successful release of the annual magazine, "Navdrishti - A Source of Inspiration" 2022-23 edition. The unwavering dedication, creativity, and hard work of the team radiates through every page, transforming this publication into a shining testament to the exceptional talent housed within the Polytechnic.*

Best Regards

  
Dr. Anil





## Vidya Bhawan Polytechnic...

Established in 1956, Vidya Bhawan Polytechnic College prepares technical personnel who are socially & environmentally sensitive. It provides Diploma in Civil, Electrical, Electronics Engineering, Computer Science and Information Technology streams; it also provides post-diploma in Polymer Science & Rubber Technology and through its Saraswati Mechatronics Centre, a certificate program in Mechatronics. The institute is approved by All India Council for Technical Education and affiliated to the Board of Technical Education, Rajasthan. The admission is done through centralized admission process and selection is done on merit. The certificate in Mechatronics is awarded jointly by BOSCH, Vidya Bhawan Society and Saraswati Singhal Foundation; and is affiliated to the Rajasthan ILD Skills University. Besides the formal courses, the institute runs short-term skill training programs for rural youth, with schedules exclusively for women, school dropouts, and weaker sections through its Community Development programs. These six-month courses are free of any cost.

Further, the Polytechnic contributes to the community by making its human resources available for research in Sanitation, Water Resource and Waste Management with known national and international groups. The institution was recognized as the 'Best Polytechnic' in 2003, 'Outstanding Technical Institution' in 2014, 'Best Community Development through Polytechnic Scheme Implementing Institute' in 2017 of the Northern Region by the National Institute of Technical Teachers Training & Research, Chandigarh (Ministry of Human Resource Development, Government of India) and got 'ISTE Best Student Chapter of Rajasthan Award' in 2018, by the Indian Society for Technical Education (ISTE).

## Salient Features

- Well Qualified and Experienced Faculty as Per AICTE Norms
- Large Campus Spread Over 11 Acre
- Learner Centric Teaching
- Hands-on Training
- Excellent Results, Merit Positions
- Field Visits and Technical Tours
- Seminars & Workshops
- Co-curricular Activities
- Industry-Institute Partnership Cell
- Well Equipped Labs with Modern & Latest Instruments
- CCTV Camera Surveillance
- Scholarship to ST/SC/Minority Students by the State Govt.
- Extra Support Classes
- Parent Teacher Association
- Alumni Association



## Admission Details

### Courses Offered

#### 1. Diploma

*Duration of Course : 3 Years*

Branch	Intake (Seats)
Civil Engineering	60+3*
Electronics Engineering	40+2*
Computer Sc. & Engineering	40+2*
Electrical Engineering	60+3*
Information Technology	40+2*

\* Tuition Fee Waiver (TFW) Scheme

#### Eligibility: For First Year

10th class pass from any recognized board

#### Eligibility: For Lateral Entry in Second Year

10th +2 Year ITI

or

12th Science (Vocational/Technical)

or

12th class pass from any recognized Board with Physics, Chemistry, Mathematics as Compulsory Subjects

#### Admission

Centralized admission through Directorate of Technical Education (DTE) Government of Rajasthan on merit basis

#### 2. Post Diploma

Branch	Intake (Seats)	Eligibility	Admission	Duration
Polymer Science & Rubber Technology	40	Engineering Diploma or Degree in any branch	Through Directorate of Technical Education (DTE) Government of Rajasthan on merit basis	18 months

#### 3. Certificate Course

Branch	Intake (Seats)	Eligibility	Admission	Duration
Mechatronics	24	ITI/Diploma in Electrical, Electronics, Mechanical, Tool & Dye Making, Turners & Fitters	Through counseling on merit basis	6 months



## Facilities

### *Well Equipped Laboratories & Workshops:*

All the Departments have state-of-the-art laboratories and workshops enabling the students for hands-on practical experience and skills.

### *Library & VBS Book Bank:*

The Polytechnic library has the latest books on engineering, technology, and related areas, collecting various and exhaustive texts and reference books. It has

- *A rich collection of approximately 20,000 books of known authors*
- *and a reading room with the latest journals, periodicals, magazines, and newspapers.*
- *VBS Book Bank providing 11 books to each student*
- *NAVDRISHTI*



### *Hostel, Canteen & Tiffin Facilities:*

The Institute has spacious and furnished hostels with a separate common room and facilities for indoor and outdoor games. An in-campus canteen with a tiffin facility is also available.



### *Games & Sports:*

The Polytechnic has a large playground for athletics and facilities for indoor and outdoor games like

- |                       |                      |                    |                 |
|-----------------------|----------------------|--------------------|-----------------|
| ○ <i>Table Tennis</i> | ○ <i>Cricket</i>     | ○ <i>Kabaddi</i>   | ○ <i>Carrom</i> |
| ○ <i>Basket Ball</i>  | ○ <i>Volley Ball</i> | ○ <i>Badminton</i> |                 |

### *Scholarships:*

Need-based and merit scholarships are available for economically weak students. The following scholarships are available at the Institute:

- *Shiksha Shakti Foundation Scholarship*
- *Vidya Bhawan Society General Scholarship*
- *Post Matric Scholarship for SC, ST, OBC and Minorities by Social Justice and Empowerment Department*
- *Pragati Scholarship Scheme for Girl Students(For First Year and Second Year-Lateral Entry)*
- *Saksham Scholarship for physically challenged boy student by the AICTE*
- *Shramik Card Scholarship etc.*



## ***Internet Facility:***

The Institute has a high-speed multi net facility in all rooms and labs.

## ***Group Medical Insurance Facility:***

Every Polytechnic student gets accidental insurance coverage up to Rs. 1 lac.

## ***Fire Suppression System:***

The Institute has a fire suppression system to extinguish and control fire.

## ***Seminar Hall, Smart Classroom & Theatre Hall:***

The College has a seminar room, smart classroom, and theatre room with the latest Audio Visual System facilities.

## ***Guidance & Counseling through VB Wellness Centre:***

For the overall wellbeing of the students, the facilitators from VB Wellness Centre provide guidance and counseling. The Centre help students to access supports that address physical, mental, emotional, personal and social concerns.

## **Awards and Achievements**

The Polytechnic received several distinguished awards at National and State level for its performance, accomplishments, leadership and activities.

- The “Best Polytechnic” in 2003 in the Northern Region, by NITTTR, MHRD, Govt. of India
- The reward for “Outstanding Institution” in 2014 in the Northern Region, by NITTTR, MHRD, Govt. of India
- The reward for “Best Student Chapter of Rajasthan State” in 2018, by Indian Society for Technical Education
- The reward for “Best CDPT Scheme Implementing Institute” in 2017 in the Northern Region, by NITTTR, MHRD, Govt. of India

## ***Awards and Achievements of Students***

- Merit Positions: The students acquire merit positions in the examinations conducted by the Board of Technical Education.
- Participation in Smart India Hackathon: Smart India Hackathon is the biggest open platform for the innovators of tomorrow. A nationwide initiative launched by AICTE and MHRD to provide students with a platform to solve some of the daily life pressing problems faced, and thus inculcate a culture of product innovation and a mindset of problem solving. The Polytechnic is preparing to participate in the Hackathon this year. It is a matter of pride that Polytechnic has been the only representing Polytechnic from the Northern region (others were engineering colleges & universities).





## Co-curricular Activities

Co-curricular activities form an integral part of education at Vidya Bhawan Polytechnic. It helps students grow over a solid academic foundation, critical thinking and social connectivity for rational purpose. It also builds a bonding amongst the students and the spirit of healthy competition. The Anandam Course, a state government initiative, help students practice values like compassion, care and giving back to society.

**Expert Lectures, Seminars & Technical Visits:** Seminars, workshops and expert lectures are a regular feature of the college. It connects with those who work in a similar knowledge domain, sometimes in a similar context and often in a completely different context. Regular interaction allows looking at varying perspectives on a given piece of knowledge and updating the latest information. It also creates occasions to revisit some of the knowledge learnt in the classroom. Visits to various industries allow practicing in a real-life situation, away from the classroom and academic environment alone.

**Induction Program:** The institution orient new students and their parents about Vidya Bhawan's history, culture, and practice. The induction programs are also ice-breaking for the students and the college teaching and not teaching staff with new students.

**Parents-Teachers Meeting:** These meetings are yet another occasion between the college and the parents to discuss their scholastic performance linking it with their future career and plan.

**The Institution of Engineers [India] IE [I] & Indian Society for Technical Education [ISTE] [Student Chapter]:** The Polytechnic has active ISTE and IE (I) Student Chapters. The chapter organizes Technical Seminars, Industrial Visits, Quiz Programs and other activities to improve the overall personality of the students.

**Academic & Cultural Programs:** Various programs outside the formal learning calendar serves many purposes. It helps students create a bond among themselves across many activities, functions and cultural events. Some of these events get drawn from a professional career like the Engineer day or national days like Republic Day or days to mark a contribution of personalities like Mahatama Gandhi. Many occasions get created just for the fun of it. It establishes social bonding across many skills like Poster Competition, Essay Competition, Cultural Functions, Kavya Ghoshti, Quiz Competitions, Eco Club Activities, Vivekanand Jayanti etc.

**Games & Sports:** Games and sports facilities serve more than the purpose of making available space for students to take a break from a hectic academic timetable. The Polytechnic has large playgrounds with in-house indoor and outdoor game facilities.

**National Service Scheme:** Several activities are organized through the National Service Scheme unit like shramdan, cleaning campaign, plantation, blood donation camp, nature camps, yoga and meditation etc.



## Projects

Vidya Bhawan Polytechnic contributes to technical knowledge of public service mostly around the institution's subject. One such area is Sanitation, Water and Waste Resource Management. Water remains a scarce resource in southern Rajasthan, therefore particular emphasis on its conservation and recharging. The concern has led to collaborative research and work with national and international organizations. In recent times the institution is associated with the following organizations/projects:

- The institution is in the “Partnering for Mewar” project team and Center for Policy Research (New Delhi), Hindustan Zinc Limited and Udaipur Municipal Corporation. The project looks into waste reuse with Polytechnic as a significant contributor in developing know-how on the faecal sludge treatment plant.
- The institution is an important member of a team for sanitation Mapping of Udaipur; Housing Typologies, Septic Tank Assessment; and Extant of Sanitation Market Produced Septic Tank Manual. The team other than Polytechnic includes Udaipur Municipal Corporation and Center for Policy Research, New Delhi.
- Polytechnic contributed to a study—the Assessment of Micro-pollutants in Ahar River, by CSIRO Australia, Western Sydney University and Wolkem India Ltd. The study findings got published in Elsevier (Publisher) journal “Science of Environment”.
- Another quite similar project is the Integrated Water Resources Assessment of the hydrological structure of Upper Berach Basin (Ahar River), Udaipur District. The project will look into complex interactions that exist between a hydrological and human system. It will also explore how poorly managed hydrological monitoring networks may weaken water storage and aquifer recharging in the area. An issue so close to arid regions like Udaipur with seasonal river and human practices with water bodies acting as a constraint in developing a coherent water system. Insufficient knowledge around integrated water resources assessment and management in the district hamper by the overall water balance in the area.

University of Copenhagen, Denmark, will conduct the above research from October 2020 to September 2023. The other partners include the Geological Society of Denmark and Greenland, DHI India, Development Alternatives, Delhi and Vidya Bhawan Polytechnic, Udaipur.



## Alumni Association

The Alumni Association is deeply engaged in fostering academic activities which contribute towards promoting interaction between the alumni and the institute. It also supports for the growth and development of the students as well as the institute; and to inculcate healthy culture and spirit of fellowship and cooperation. It is deeply engaged in supporting academic and co-curricular activities, financially and through volunteerism.

### Activities of the Alumni Association

#### 1. Engineer's Day Celebration:

The Alumni Association, IEI & ISTE Student Chapter of Polytechnic jointly organizes Engineer's Day on 15th September every year. On this occasion an Essay Competition and a Poster Making Competition is conducted.

#### 2. Foundation Day Celebration:

The Foundation is celebrated on second Saturday of May every year. On this occasion, the former students completing 50 and 25 years of their diploma are honoured.

#### 3. Best Student Award:

'CSL Agrawal Best Student Award' (Male) and 'CRB Rao Best Student Award' (Female) on the basis of academics; participation in co-curricular activities; discipline and optimistic attitude towards the institution. The recipients are rewarded with a cash prize of Rs. 5000 each.

#### 4. Smt. Prem Kumari Smrati Best Sportsperson Award:

'Best Sportsperson Award Male & Female' is conferred, in memory of Sh. CSL Agrawal's mother Smt. Prem Kumari the recipients are rewarded with a cash prize of Rs. 2500 each.

#### 5. Award to Top Three Position Holders:

The first, second and third position holders of First Year, Second Year and Third Year of all branches are given a cash prize of Rs. 1000, Rs. 750 and Rs. 500 respectively.

#### 6. Award to the Participants of Smart India Hackathon:

The participants of Smart India Hackathon are honoured and given a cash prize of Rs. 1000 each.

#### 7. Scholarships to Financially Weak Students:

Scholarships of Rs. 30,000 are given to financially weak students.





## The Departments

### Department of Civil Engineering

(BATCH YEAR 2022-23)



- Chair (L to R) :** Sh. Mangi Lal (Peon), Smt. Manisha (Instructor), Sh. Girish Kumar (Lecturer), Sh. Jai Prakash (H.O.D.), Dr. Anil (Principal), Sh. Chandresh (Academic Head), Sh. Bheru Lal (Instructor), Sh. Ganesh Lal (Peon)
- 1<sup>st</sup> Row (L to R) :** Narendra, Umesh, Vatsal, Mayank, Priyanka, Rajendra, Digraj, Mohammad Ali, Bharat, Shivansh, Chandra Prakash, Harish
- 2<sup>nd</sup> Row (L to R) :** Adil Aman, Tushar, Karan, Aakash, Yash, Himmat, Mahipal, Mohammad Asrar
- 3<sup>rd</sup> Row (L to R) :** Mohit, Devendra, Yashwant, Khush, Dharmesh, Mayank, Tushar, Chinmay
- 4<sup>th</sup> Row (L to R) :** Naman, Rajat, Kunal, Hitesh, Lakshyaraj





The Civil Engineering Department of the institute is the oldest one in the state of Rajasthan. It was established in 1956 with a view to focus on the quality education and training in the field of Civil Engineering. The Department has advanced laboratories to cater to the need of practical. The Department arranges software trainings, site visits, expert talks, soft skill development program to meet the requirement of industry and students. The Department trains students in planning, management and design of diverse construction projects; surveying; environmental studies ; laboratory techniques; and material testing. The Department has got a good reputation among the Polytechnics in Rajasthan due to the remarkable results and good academic environment. The strong faculty- student's interaction provides opportunities to the students to work with commitment and learn effectively. The Department has nurtured strong connect with the building and construction industry. The alumni hold prestigious positions in leading academic institutions, industry and government.

## Laboratories:

- Strength of Material Lab Fluid Mechanics Lab
- Surveying Lab Transportation Engineering Lab
- Soil & Foundation Lab Concrete Technology Lab
- Computer Aided Drawing Lab Water Supply & Sanitary Engineering Lab

## Faculty:



**Er. Jai Prakash**  
M.Tech. (H.O.D.)



S.No.	Name	Designation	Qualification	Experience
1.	Jai Prakash	H.O.D	M. Tech.	32 years
2.	Dr. Anil	Principal	M.E., Ph.D.	29 years
3.	Chandresh	Lecturer	B.E.	25 years
4.	Girish	Lecturer	B.Tech.	9 years
5.	Manisha	Instructor	Diploma	14 years
6.	Bheru Lal	Instructor	Diploma	12 years



## Department of Computer Science & Information Technology

(BATCH YEAR 2022-23)



**Chair (L to R) :** Sh. Jay (Lecturer), Sh. Hemchandra (Lecturer), Sh. Pritesh (Lecturer), Sh. Gaurav (H.O.D.), Sh. Devendra (H.O.D), Dr. Anil (Principal), Sh. Bhuvan (Lecturer), Smt. Priyanka (Lecturer), Sh. Abhishek (Lecturer), Sh. Hemant (Lecturer)

**1<sup>st</sup> Row (L to R) :** Vaibhav, Mayank, Vishal, Rahul, Aaqib, Ishika, Bushra, Jayant, Sudarshan, Neev, Gaurav, Aishwarya

**2<sup>nd</sup> Row (L to R) :** Gopal, Tushal, Bhavya, Sadhya, Dilip, Kunal, Dharmesh, Yash , Kartik, Rommy

**3<sup>rd</sup> Row (L to R) :** Jayant, Yash, Rishi, Ratan, Sameer, Deepak, Gaurav

**4<sup>th</sup> Row (L to R) :** Himanshu, Manish, RakshayRaj, Yashwardhan





## Department of Computer Science & Engineering

The Department of Computer Science was established in 1997. The aim of the Department is to impart quality education and make the students competent to meet the global, technical and social challenges in the field of Computer Science. The Department has experienced and qualified faculties, who always strive to give the best to make the students outstanding Engineers. The students are motivated to develop their technical skills as well as they are provided with professional grooming and guidance in order to make them competent professionals and inspiring individuals.

### Laboratories:

- Unix & Shell Programming lab PC Maintenance & Hardware Lab
- Object Oriented (C++, JAVA) Programming Lab Dot Net Lab
- Web Technology Lab C Programming Lab
- IT Fundamentals Lab



**Er. Devendra**  
B.Tech.  
Incharge H.O.D.



S.No.	Name	Designation	Qualification	Experience
1.	Devendra	H.O.D	B. Tech.	12 years
2.	Bhuvan	Lecturer	B.E.	11 years
3.	Jai	Lecturer	B.E.	11 years
4.	Priyanka	Lecturer	B.E.	10 years
5.	Hemchandra	Lecturer	B.E.	10 years

The Department of Information Technology provides quality technical education to the students with practical exposure and project based learning in the field of Information Technology. The Department offers a promising future for its students in the domain of software development and hardware. The Department has blend of young and experienced faculty members. The laboratories are fully equipped and well furnished with latest computers and softwares. Training is provided on design, experimentation, analyzing and interpreting data etc.

## Laboratories:

- Unix & Shell Programming lab
- PC Maintenance & Hardware Lab
- Object Oriented (C++, JAVA) Programming Lab
- Dot Net Lab
- Web Technology Lab
- C Programming Lab
- IT Fundamentals Lab



**Er. Gaurav**  
B.E., M.Sc. (C.S.)  
(H.O.D.)



S.No.	Name	Designation	Qualification	Experience
1.	Gaurav	H.O.D	B.E., M.Sc. (C.S.)	16 year
2.	Hemant	Lecturer	B.E.	11 years
3.	Pritesh	Lecturer	B.E.	12 years
4.	Abhishek	Lecturer	B.E.	11 years



# NAVDRISHTI 2022-23

## Department of Electrical Engineering (BATCH YEAR 2022-23)



- Chair (L to R) :** Sh. Neeraj (Lab. Technician), Sh. Kamlesh (Lab Technician), Sh. Ramesh (Lecturer), Dr. Anil (Principal), Sh. Nitin (H.O.D.), Sh. Pankaj (Lecturer), Ms. Darshana (Lecturer), Smt. Sonu (H.O.D. - Sc. & Hum.)
- 1<sup>st</sup> Row (L to R) :** Ranveer, Hemant, Lovesh, Neelam, Hiya, Khushbu, Pankaj S., Pankaj D.
- 2<sup>nd</sup> Row (L to R) :** Devendra, Pavan, Kamlesh, Vishvpal, Bhavesh, Rahul, Mayur, M. Yaseen
- 3<sup>rd</sup> Row (L to R) :** Ronak, Rohit, Virendra, Harsh, Ganpat, Vivek K, Vivek S, Nirmal, Kunal





The Department of Electrical Engineering imparts technical knowledge and skill in the field of Electrical Engineering. The aim of the Department is to develop competent Electrical engineers having skills and capabilities to become employable in the industries and engineering organizations. The Department has highly qualified, experienced, enthusiastic and dedicated faculty. The well equipped modern laboratories provide ample opportunities for hands-on practice and conceptual learning. The Department trains the students on various aspects of electricity generation, transmission and distribution; and operating and maintaining various electrical machines and equipments; and job oriented training courses like panel designing, motor rewinding, AutoCad etc.

## Laboratories:

- Electrical Machine Lab
- Electrical Measurement Lab
- Power Electronics Lab
- Electrical Workshop Lab



**Er. Prakash**  
Diploma, AMIE,  
M.Tech. Ph.D. (pur.)  
(H.O.D.)



S.No.	Name	Designation	Qualification	Experience
1.	Er. Prakash	H.O.D	Dip.,AMIE,M.Tech. Ph.D.(pur.)	29 years
2.	Nitin	Lecturer	M.Tech.	21 years
3.	Ramesh Chandra	Lecturer	M.Tech.	16 years
4.	Pankaj Kumar	Lecturer	B.E.	16 years
5.	Gaurang	Lecturer	B.Tech.	12 years
6.	Darshana	Lecturer	M.Tech.	11 Months
7.	Kamlesh	Lab Technician	I.T.I.	24 years
8.	Neeraj	Lab Technician	I.T.I.	8 years



# NAVDRISHTI 2022-23

## Department of Electronics Engineering (BATCH YEAR 2022-23)



**Chair (L to R) :** Smt. Sushma (Lecturer), Sh. Radhakishan (Lecturer), Sh. M. Sikander (Lecturer), Dr. Anil (Principal), Dr. Deepak (H.O.D.), Sh. Amit (Lecturer) Smt. Meenakshi (Lab. Technician).

**1<sup>st</sup> Row (L to R) :** Bharat, Kamlesh, Lakshit, Shubham, Karan, Deepak, Rohit



The Electronics Engineering Department was established in the year 1992 with the aim to provide knowledge and skills in the field of Electronics. the Department has always been on a high growth path and has experienced and dedicated faculty with a strong commitment to engineering education. Laboratory facilities are utilized by the students for extensive practical and project work. The Department focuses on preparing its students to meet new industry challenges and making them aware of the recent advancements in the technological field. The Department endeavors to impart quality education; inculcate discipline and dedication in the students through effective teaching and learning practices so that they are better prepared to face today's competitive world and have a sense of social responsibility.

## Laboratories:

- Basic Electronics Laboratory
- Electronics Workshop
- Instrumentation & Digital Electronics Laboratory
- Advance Electronics & Communication
- Microprocessor Laboratory



**Dr Deepak**  
M.E., Ph.D.  
(H.O.D.)



S.No.	Name	Designation	Qualification	Experience
1.	Dr Deepak	H.O.D	M.E., Ph.D.	26 year
2.	Sushma	Lecturer	B.E.	14 years
3.	Mohd. Sikander	Lecturer	B.Tech.	11 years
4.	Amit	Lecturer	B.Tech.	11 years
5.	Radhakishan	Lecturer	B.E.	10 years
6.	Meenakshi	Lab Technician	I.T.I.	12 years





# NAVDRISHTI 2022-23

## Department of Science and Humanities (BATCH YEAR 2022-23)



- Chair (L to R) :** Sh. Neeraj (Lab Technician), Sh. Nayan (Lab Technician), Sh. Mahendra Pal (Lecturer), Sh. Hemant (Lecturer), Sh. Radhakishan (Lecturer), Dr. Anil (Principal), Ms. Sonu (H.O.D.), Ms Meenakshi (Lab Technician), Sh. Bharat (Lab Technician), Sh. Gaurang (Lecturer), Sh. Dheeraj (Lab Technician).
- 1<sup>st</sup> Row (L to R) :** Sh. Pushkar (Peon).



## Department of Science & Humanities

Science and Humanities Department bridges gap between basic sciences and engineering technology. The Department takes care of first year subjects like Applied Mathematics, Applied Physics, Applied Chemistry, Applied Mechanics, Fundamentals of Computer and Information Technology, Communication Skills In English, Engineering Graphics and soft skill development. The Department is concerned with the early development of the personality of the students like developing the sense of responsibility; volunteerism; equality; discipline; respect; and fellow-feeling through Anandam (Joy of Giving) and other activities.

### Laboratories:

- Applied Physics Lab
- Applied Chemistry Lab
- Mechanical Lab
- IT Fundamentals Lab
- Electrical & Electronics Engineering Lab
- Engineering Workshop



**Ms. Sonu**  
M.A. (English), Ph.D. (Pur.)  
Incharge (H.O.D.)



S.No.	Name	Designation	Qualification	Experience
1.	Sonu	H.O.D	M.A. (English), Ph.D. (Pur.)	19 years
2.	Hemant	Lecturer	M.Sc. ( Physics)	7 years
3.	Mahendra Pal	Lecturer	M.Sc. (Chemistry), Ph.D. (Pur.)	7 years
4.	Dr Snehlata	Lecturer	M.Sc. (Mathematics), M.C.A., Ph.D.	20 years
5.	Bharat	Lab Technician & Yoga Instructor	B.Com., M.A.(Yoga)	12 years
6.	Nayan	Lab Technician	I.T.I.	12 years



## Department of Polymer Science and Rubber Technology (BATCH YEAR 2022-23)



- Chair (L to R) :** Sh. Hemant (Physics Lecturer), Dr. Vikram (Head, P.S.R.T.), Dr. Anil (Principal), Dr. Sunil (Visiting Faculty), Sh. Gaurang (Rubber Engineering Lecturer), Sh. Mahendra Pal (Polymer Chemistry Lecturer).
- 1<sup>st</sup> Row (L to R) :** Rohit, Himanshu, Ankur
- 2<sup>nd</sup> Row (L to R) :** Bharat, Abhishek, Anil



The Department of Polymer Science and Rubber Technology was established in the year 2011 for the first time in India with the objective to impart knowledge and skills in the field of Polymer Science and Rubber Technology with help, support and started for the guidance of Hari Shankar Singhania Elastomers and Tyre Research Institute, JK Tyre and Industries Ltd. and India Rubber Institute, Rajasthan. The Department offers Post Diploma in Polymer Science & Rubber Technology and DIRI/PGDIRI. The objective of the Department is safeguarding and promoting interests of the Indian Rubber Industry, both of auto tyre, non-tyre sectors, covering rubber products, raw materials, processing machinery and testing equipment technicians and supervisors etc. and provide professional, committed and Industry experienced faculty. The Department arranges seminars and workshops, interactions with eminent visiting faculty from Industry and Research Center. If the requirement of course The Department has state-of-art laboratory with Latest Instruments to fulfill & Industry. Strong Academic-Industrial Interaction provides opportunity to the students of practical exposure of rubber testing and manufacturing process and get acquainted with Operational Management, Planning and Financial aspects, Quality Assurance and Quality management system during the course.

## Special Features:

- Qualified, committed and Industry experienced faculty
- State-of-art laboratory with latest Instruments
- Seminars and workshops, interactions with eminent visiting faculty from Industry and Research Center
- Strong Academic-Industrial Interaction
- Provides facility of testing and manufacturing process
- Training in Operational Management, Planning and Financial aspects, Quality Assurance and Quality management system during the course



**Dr. Vikram**

Ph.D. (Chem.) M.Sc. (Polymer Science)  
PGDIRI RTC IIT, Kharagpur  
(H.O.D.)

## Laboratories:

- Rubber Testing Lab
- Rubber Processing Lab
- Basic Mechanical & Electrical Engineering Lab
- Chemistry Lab
- Basic Electronics Lab



S.No.	Name	Designation	Qualification	Experience
1.	Dr. Vikram	H.O.D	Ph.D. (Chemistry), M.Sc. (Polymer Science), PGDIRI RTC IIT, Kharagpur	14 years
2.	Sunil	Hon. Faculty	B.Sc., L.P.R.I., P.G. Diploma	42 years
3.	Rajeev	Hon. Faculty	B.Tech., M.Tech., M.B.A., P.G.D. I.R.I.	38 years



## Saraswati Mechatronics Centre

The Saraswati Mechatronics Centre was established in 2019 with the objective to provide training in Mechatronics and to enhance employability of trainees in industrial establishments with the support of Saraswati Singhal Foundation and Bosch. It is the first ever world class training centre in the state of Rajasthan and is a new initiative for job oriented Skill Development Training in the fields of Mechatronics, Automation and Advance Manufacturing that can help in getting exciting jobs in electronics, mechanical engineering, automobiles, auto components, white goods, capital goods manufacturing industries.

### Special Features:

- Magnificent building of 12000 square feet built up area
- Faculty comprises of highly experienced engineering graduates trained by BOSCH
- World-class state-of-the-art laboratories and classrooms fully equipped with latest machines and equipments
- Curriculum prepared by BOSCH
- The centre focuses on designing, manufacturing and maintaining products that have both mechanical and electronic components
- Mechatronics blends mechanical and electrical skills with electronic design
- Academic and professional skill improvement of Polytechnic faculty and students
- A successful completion certificate is awarded jointly by BOSCH, Vidya Bhawan Society and Saraswati Singhal Foundation; and by the Rajasthan ILD Skills University
- Ample career opportunities, the centre assists in the placement of the trained candidates
- IT Fundamentals Lab

### Laboratories:

- Production Lab
- Mechatronics Lab
- Automation Lab



S.No.	Name	Designation	Qualification	Experience
1.	Nitin	Lecturer	M.Tech. & BOSCH Trained	21 years
2.	Ramesh Chandra	Lecturer	M.Tech. & BOSCH Trained	16 years
3.	Gaurang	Lecturer	B.Tech. & BOSCH Trained	12 years
4.	Mohd. Sikander	Lecturer	B.Tech. & BOSCH Trained	11 years
5.	Amit	Lecturer	B.Tech. & BOSCH Trained	11 years
6.	Sonu	Lecturer	M.A. (English) Ph.D. (Pur.)	19 Years
7.	Dr. Snehlata	Lecturer	M.Sc. (Mathematics), M.C.A., Ph.D.	20 Years



## Training and Placement Cell



**Er. Pankaj**  
Incharge

As someone has rightly quoted "Growth is never an event, it is a process". This is the basic theme on which Training & Placement Cell of the college runs. The cell helps students to know and understand their potential, strengths and weaknesses and visualize their goals correctly. The cell gives guidance to students for employability as well as it also arranges necessary expert talks for the students. The Training & Placement Cell not only facilitates placement of final year students but also helps passed out students to get better job. This year around 50 students were selected by various companies.

## Scholarship Cell



**M. Sikander**  
Nodal Officer  
NSP & SJE Portal

The scholarship cell stands as an indispensable pillar of support within the Polytechnic, earning its distinction as a dedicated hub for students welfare. From the verification of scholarship forms to the seamless implementation of biometric attendance on the digital portal, the Scholarship cell excels in optimizing Processes Crucial to the students' experience. The cell actively engages in addressing students queries and concerns related to various Scholarships.

It serves as a knowledge hub, disseminating information about Various Scholarship opportunities, eligibility criteria, & Application processes

This year 30 Students Secured Scholarship from Social Justice & Empowerment portal and 8 girls secured Pragati scholarship on National Scholarship portal and 1 boy secured Swanath Scholarship. 15 students secure Shiksha Shakti Foundation scholarship every year. 56 students received the Vidya Bhawan Society Scholarship. Many more scholarships are awarded to students from other platforms.



# NAVDRISHTI 2022-23

## OFFICE STAFF (BATCH YEAR 2022-23)



- Chair (L to R) :** Sh. Mangi Lal (Peon), Sh. Om Prakash (Office Assistant), Sh. Raghuveer (Librarian), Sh. Nandkishor (Office Assistant), Dr. Anil (Principal), Sh. Sudhir (Office Suprintendent), Sh. Gopal (Accountant), Sh. Umashanker (Office Assistant)
- 1<sup>st</sup> Row (L to R) :** Sh. Prakash, Sh. Hemraj, Sh. Jagdish, Sh. Kuldeep, Sh. Jai Singh, Sh. Narayan Lal, Sh. Nand Lal (Peon)



## *Administrative and Accounts Staff*

### Office Superintendent

Sudhir	M.S.W.
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### Office Assistant

Umashankar	B.A.
Nand Kishore	B. A.
Om Prakash	M. A.

### Accountant

Gopal	M. Com., B. Ed.
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### Asst. Accountant

Khushboo	M. Com., B. Ed.
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### Asst. Librarian

Raghuveer Singh	M. Lib., M. A., B. Ed.
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### Support Staff

Dungar Singh	Nand Lal
Mangi Lal	Ganesh Lal
Mangi Lal	Narayan Lal
Ratan Lal	Prakash Das
Jay Singh	Jagdish
Jagdish	Durga Devi
Kuldeep	Laxman
Hemraj	





# NAVDRISHTI 2022-23 Gallery

## Alumni *function*



## Engineer's *day* *celebration*





# NAVDRISHTI 2022-23



*Annual function*





# NAVDRISHTI 2022-23

## Expert Lectures



LECTURE ON  
ENTREPRENEURSHIP



EXPERT LECTURE ON  
SOLAR ENERGY



LECTURE ON HEALTHCARE  
WITH AYURVEDA



EXPERT LECTURE EE \_ EL

## Gandhi-Shastri Jayanti



VOCATIONAL COURSE - SHIKSHA SAMABAL



SMC TRAININGS

## PTM



PARENTS TEACHER MEETING





# NAVDRISHTI 2022-23

## Fresher's Day Celebration





# NAVDRISHTI 2022-23



## Fresher's Day Celebration and Meljol Mela





# NAVDRISHTI 2022-23

## NSS *Activities*



WORKSHOP ON ENHANCING WRITING SKILLS



DENTAL CHECKUP CAMP



INTERNATIONAL YOGA DAY



EYE DONATION AWARENESS CAMP



PILES AWARENESS CAMP



PERSONALITY DEVELOPMENT SESSION



SURVEY ON LITERACY \_ EMPLOYMENT



SELF DEFENSE TRAINING



NATURE CAMP AT PRAKRITI SADHNA KENDRA



## Sports *Activities*





# NAVDRISHTI 2022-23

## Industrial *Visits*



SECURE METER



INTERNATIONAL RUBBER CONFERENCE AT BANGLORE



GOVERNMENT WATER TREATMENT PLANT AT NANDESHWAR



JK TYRES EE DEPT



ARCHIE HARMONY





[illegible]



## Placements *Congratulations*

**Vidya Bhawan Polytechnic Udaipur**  
Training & Placement Cell  
**Congratulations**  
Placement in Session 2022-23 III<sup>rd</sup> Round

ARCGATE Y unpc

सं. - पीएम का, सी.डी.आर.आई., इंदिरा चौक से रास्ता, बड़वाले रोड, उदापुर (रा.)  
ID: 783277993, Email: vidyabhawanpolytechnic@gmail.com

**Vidya Bhawan Polytechnic College Udaipur**  
Congratulations

Selected As DET AT YMPCL, Udaipur

Admission Open Call: 1. Shri Hemant: 9929375538 2. Shri Mahendra: 9783221380

**VIDYA BHAWAN POLYTECHNIC COLLEGE, UDAIPUR**  
Training and Placement Cell  
**Heartiest Congratulations**  
Batch - 2023  
computer science (CS) Electrical (EE) Electronics (EL)

Selected for the Post of DET in Secure Meters Limited, Udaipur



### VIDYA BHAWAN POLYTECHNIC COLLEGE, UDAIPUR

Training & Placement Cell

*Congratulates!*

Major Placement in last 6 months

HEMANT AMETA YMPCL (Electrical) FAIZAN RAZA YMPCL (Electrical) BHARAT PALIWAL YMPCL (Electrical) HARSHIT LOHAR YMPCL (Electrical)

RAHUL SONI YMPCL (Electrical) ROMIT SRP (Polymer Science) ADHISHEK TILAWAT SRP (Polymer Science) BHARAT SINGH SRP (Polymer Science)

HIMANSHU SRP (Polymer Science) SAKSHAM MIRAJ (Computer Science) HARSHUL VYAS MIRAJ (Computer Science)

MIRAJ GROUP Y










...And many more ...Journey is on












# NAVDRISHTI 2022-23

## TOPPERS Result of Board Examination (2021-22)

### CIVIL

1st year	 <b>I</b> (10 CGPA) <b>BHAVIKA</b>	 <b>II</b> (9.95 CGPA) <b>SATYANARAYAN</b>	 <b>III</b> (9.79 CGPA) <b>PRINCE</b>
2nd year	 <b>I</b> (9.92 CGPA) <b>MAYANK</b>	 <b>II</b> (9.65 CGPA) <b>DHARMESH</b>	 <b>III</b> (9.52 CGPA) <b>HARISH</b>
3rd year	 <b>I</b> (79.97%) <b>SHAIENDRA</b>	 <b>II</b> (79.06%) <b>RAHUL</b>	 <b>III</b> (78.15%) <b>SUJAL</b>

### COMPUTER SCIENCE










1st year	 <b>I</b> (9.66CGPA) <b>MITALI</b>	 <b>II</b> (9.29 CGPA) <b>GAURANG</b>	 <b>III</b> (9.00CGPA) <b>NAKSHATRA</b>
2nd year	 <b>I</b> (9.89CGPA) <b>NEEV</b>	 <b>II</b> (9.53CGPA) <b>RAHUL</b>	 <b>III</b> (9.44CGPA) <b>VAIBHAV</b>
3rd year	 <b>I</b> (78.96%) <b>GAYATRI</b>	 <b>II</b> (77.25%) <b>SHIVANI</b>	 <b>III</b> (71.98%) <b>DHAIRYA</b>











# NAVDRISHTI 2022-23

## TOPPERS Result of Board Examination (2021-22)

### ELECTRICAL ENGINEERING

1st year	 <b>I</b> (9.50 CGPA) <b>AMAN</b>	 <b>II</b> (9.26 CGPA) <b>VANSHITA</b>	 <b>III</b> (8.47CGPA) <b>JAYESH</b>
2nd year	 <b>I</b> (9.70 CGPA) <b>HEMANT</b>	 <b>II</b> (9.47 CGPA) <b>HIYA</b>	 <b>III</b> (9.45CGPA) <b>MAYUR</b>
3rd year	 <b>I</b> (80.47%) <b>BHAVESH</b>	 <b>II</b> (77.51%) <b>TARUN</b>	 <b>III</b> (76.40%) <b>JAYANT</b>

### ELECTRONICS ENGINEERING










1st year	 <b>I</b> (9.24 CGPA) <b>PRIYANKSI</b>	 <b>II</b> (9.69 CGPA) <b>MANTHAN</b>	 <b>III</b> (8.67 CGPA) <b>KSHITIJ</b>
2nd year	 <b>I</b> (9.70 CGPA) <b>SHUBHAM</b>	 <b>II</b> (8.75 CGPA) <b>ROHIT</b>	 <b>III</b> (8.37 CGPA) <b>DEEPAK</b>
3rd year	 <b>I</b> (72%) <b>KHUSHWANT</b>	 <b>II</b> (60.76%) <b>MAHESH</b>	



# NAVDRISHTI 2022-23

## TOPPERS Result of Board Examination (2021-22)

### INFORMATION TECHNOLOGY

1st year	 <b>I</b> (6.96 CGPA) <b>ARUN</b>	 <b>II</b> (6.95 CGPA) <b>HARSH RAJ</b>	 <b>III</b> (6.66 CGPA) <b>JATIN V</b>
2nd year	 <b>I</b> (9.01%) <b>GAURISH</b>	 <b>II</b> (8.96%) <b>YASH</b>	 <b>III</b> (8.93%) <b>AISHWARY</b>
3rd year	 <b>I</b> (76.16%) <b>SOMYA</b>	 <b>II</b> (75.84%) <b>JATIN K</b>	 <b>III</b> (74.54%) <b>AYUSHI</b>

### RUBBER TECHNOLOGY

1st year	 <b>I</b> (81.56%) <b>ROHIT</b>	 <b>II</b> (79%) <b>HIMANSHU</b>	 <b>III</b> (75.78%) <b>BHARAT</b>
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## GAMES PRIZE DISTRIBUTION BOYS

100 METER RACE		
RANK	NAME	CLASS
I	NIRNAY SHARMA	II Year CE
II	PANKAJ SHARMA	II Year CS
III	GOURISH KUMAWAT	III Year IT

400 METER RACE		
RANK	NAME	CLASS
I	NIRNAY	II Year CE
II	SATYA NARAYAN PRAJAPAT	II Year CE
III	PANKAJ	II Year CS

SHOTPUT		
RANK	NAME	CLASS
I	DEV KARAN	II Year EE
II	PANKAJ	II Year CS
III	FARHAN	II Year CS

DISCUS THROW		
RANK	NAME	CLASS
I	FARHAN	II Year CS
II	ANKIT	II Year CE
III	DEV KARAN	II Year EE

JAVELIN THROW		
RANK	NAME	CLASS
I	ANKIT	II Year CE
II	PREM SINGH	I Year IT
III	RAJPAL SIGNH	II Year CE

LONG JUMP		
RANK	NAME	CLASS
I	NOORULA	II Year CS
II	ANKIT	II Year CE
III	ANSHU KUMAR	II Year CE

THREE LEGGED RACE		
RANK	NAME	CLASS
I	DIVYANSH KUMAR & JAYESH	II Year EE
II	NOORULLA & KRISHNAKANT	II Year CS
III	SAHIL & PREM SINGH	I Year B GROUP



## GAMES PRIZE DISTRIBUTION BOYS

TUG OF WAR		
RANK	NAME	CLASS
I	YASHVARDHAN, RAKSHYARAJ, PANKAJ, RAHUL, NAKSHATRA, FARHAN, SUDARSHAN, MANISH	CS II & III YEAR TEAM
II	HIMMAT SINGH, DEVENDRA SINGH, RAHUL, ADITYA, AKASH, NIRMAL, LAKSHRAJ, ANSHU	CE II & III YEAR TEAM

FAST CYCLE RACE		
RANK	NAME	CLASS
I	SATYA NARAYAN	II Year CE
II	PRINCE	II Year CE
III	SAHIL	I Year EE

SLOW CYCLE RACE		
RANK	NAME	CLASS
I	RAJVEER	I Year EE
II	SATYA NARAYAN	II Year CE
III	-	-

4 X 100 METER RELAY RACE		
RANK	NAME	CLASS
I	PREM SINGH, SAHIL, DEEPANSHU, RAHUL	I Year B GROUP
II	TANISHQ, ABHISHEK, UTTKARSH, JATIN	I Year CS
III	KUSHAL, VAIBHAV, BHOPAL, JITENDRA	I Year CE

CRICKET		
RANK	NAME	CLASS
WINER TEAM	DIGRAJ, MAYANK, TUSHAR, AKASH, LAKSHYARAJ, HARISH, NIRNAY, BHUPENDRA, KHUSHAL, KULDEEP, DHARMESH, PURURAJ, VANSH, ANSHU	CE II & III YEAR TEAM
RUNNER UP TEAM	NIRMAL, DEVENDRA SINGH, VISHAL, KUNAL, ROHIT, LOVESH, RAVI, RANVEER, BHAVESH, LOVE, VISHWAPAL	EE II & III YEAR TEAM
BEST BATSMAN	NIRNAY	II Year CE
BEST BOWLER	NIRMAL	III Year EE





## GAMES PRIZE DISTRIBUTION BOYS

KABBADI		
RANK	NAME	CLASS
<b>WINER TEAM</b>	NISHIT, ADITYA, PURURAJ, ANSHU, HIMMAT, RAHUL, YASHWANT, DEVENDRA, ANKIT	CE II & III YEAR TEAM
<b>RUNNER UP TEAM</b>	RAJVEER, SAHIL, PREM SINGH, KARTIK, ABHINAV, BHAVYA, DINESH, DEEPAK, DEVENDRA	I YEAR B GROUP TEAM

VOLLEYBALL		
RANK	NAME	CLASS
<b>WINER TEAM</b>	ANKIT, AKASH, PARTH, ADITYA, PRINCE, NISHIT, RAJPAL, NIRNAY, DIGRAJ	CE II & III YEAR TEAM
<b>RUNNER UP TEAM</b>	SHUBHAM C., SHUBHAM P., JAYANT, MANISH, GAURISH, NAKSAHTRA, HARSHRAJ, JATIN, GOPAL	CS& IT II & III YEAR TEAM



## GAMES PRIZE DISTRIBUTION GIRLS

100 METER RACE		
RANK	NAME	CLASS
I	HARSHITA	I YEAR IT
II	MITALI	II YEAR CS
III	GARVITA	I YEAR IT

DISCUS THROW		
RANK	NAME	CLASS
I	HIYA	III YEAR EE
II	MITALI	II YEAR CS
III	NEELAM	III YEAR EE

CRICKET BALL THROW		
RANK	NAME	CLASS
I	NEELAM	III EE
II	AQSA	I YEAR IT
III	LEKHITA	II YEAR CS

THREE LEGGED RACE		
RANK	NAME	CLASS
I	NEELAM & AQSA	III YEAR EE & I YEAR IT
II	HARSHITA & GARVITA	I YEAR IT
III	DEVYANSHI & MITALI	II YEAR CS

SPOON RACE		
RANK	NAME	CLASS
I	BHOOMI	II YEAR CS
II	GARVITA	I YEAR IT
III	NEELAM	III YEAR EE

FAST CYCLE RACE		
RANK	NAME	CLASS
I	NEELAM	III YEAR EE
II	GARVITA	I YEAR IT
III	-	-





## GAMES PRIZE DISTRIBUTION GIRLS

SLOW CYCLE RACE		
RANK	NAME	CLASS
I	GARVITA	I YEAR IT
II	NEELAM	III YEAR EE
III	LEKHITA	II YEAR CS

4 X 100 METER RELAY		
RANK	NAME	
WINER TEAM	HARSHITA, AQSA, NEELAM, GARVITA	
RUNNER UP TEAM	MITALI , DEVYANSHI LEKHITA , HIYA	

BADMINTON		
RANK	NAME	CLASS
I	MITALI	CS II
II	DEVYANSHI	CS II
III	KANISHKA	CS II

CARROM		
RANK	NAME	CLASS
I	MITALI SUTHAR	II CS
II	KHUSHI CHOUHAN	I CS
III	MAATANGI SISODIA	II IT



## *Artificial Intelligence: Understanding the Future of Technology*

Artificial intelligence (AI) has been a hot topic in the tech industry for the past few years, and for good reason. AI has the potential to revolutionize the way we live, work, and communicate. But what exactly is AI, and how does it work?

In simple terms, AI refers to the ability of machines to perform tasks that typically require human intelligence, such as learning, reasoning, and problem-solving. AI systems use algorithms to analyze data and make decisions based on that data. These systems can be trained to recognize patterns, classify information, and even make predictions about future events.

One of the most exciting applications of AI is in the field of machine learning. Machine learning algorithms allow machines to learn from data without being explicitly programmed. This means that machines can improve their performance over time as they are exposed to more data.

Another important aspect of AI is natural language processing (NLP). NLP refers to the ability of machines to understand and interpret human language. This has a wide range of applications, from chatbots that can answer customer queries to language translation software that can break down language barriers.

AI is already being used in a various industries, from healthcare to finance to retail. In healthcare, AI is being used to analyze medical data and identify potential health risks. In finance, AI is being used to analyze market trends and make investment decisions. In retail, AI is being used to improve customer experience by personalizing recommendations and optimizing supply chain management.

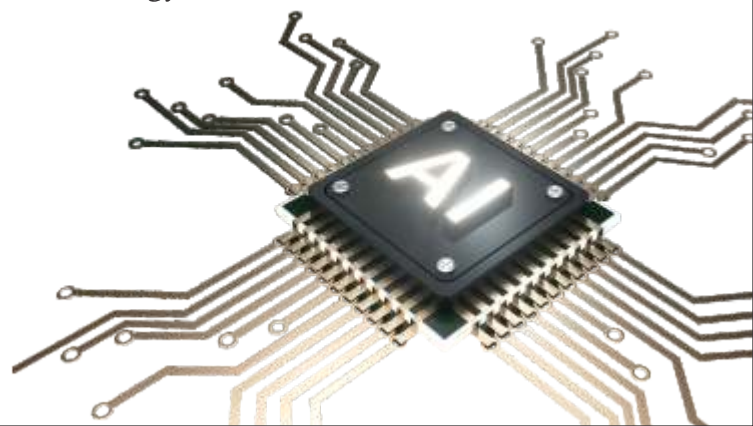
As AI continues to develop, it is likely to have an even greater impact on society. It will change the way we work, communicate, and even think about ourselves. But with this great potential comes great responsibility. It is important that we ensure that AI is developed in an ethical and responsible manner, and that its benefits are shared equitably across society.

In conclusion, AI is a powerful technology that has the potential to transform the world as we know it. As we continue to develop AI, it is important that we do so in a way that benefits everyone, and that we remain mindful of the ethical implications of this technology.

Compiled by:

Aaqib DM

CS-3rd Year





## *SEVEN STEPS TO EVOLVING A PASSION AND MAKING IT WORK*

- Step 1 Gather sparks of curiosity: The first step is to simply invest your interest into whims. Those little sparks of interest where you don't know enough to make them a passion. This means reading different books, meeting different people.
- Step 2 Fan the flames of interest: After exposing yourself to a lot of randomness, you need to cultivate the success. Build upon the little sparks of interest that come by your life.
- Step 3 Cut out distractions: If your interests are genuine and worth exploring, it shouldn't be too difficult to eliminate the non-essentials. Distractions such as television, excess internet usage and video games only take a bit of conditioning to free up.
- Step 4 Living minimally: If you already have a job you aren't passionate about, work only as much as you need to keep going. Valid passions need time to grow into income generating skills.
- Step 5 Make a passion that creates value: If you have a skill that creates social value you can make money through almost any medium. You need to transform your developing passions into skills that can fill human needs.
- Step 6 Find a way to monetize that value: Monetizing value isn't easy, it requires that you learn how to market, sell yourself and find ways to connect human needs. Whether you intend to work in a job or own business makes no difference. You are the CEO of your life, so you need to know how to connect your passions with serving other people.
- Step 7 Go back to step one: Describing this process in steps is misleading. It implies that there is a destination. There is no destination. The process of following whims, cultivating passions, turning them into valuable skills and then finally earning revenue from them is lifelong.

Compiled by:

Bhavika

CE-2nd Year

### *Life*



Life is all about choices,  
One decision can change your life.  
Mind may be your Best Friend,  
Or your worst enemy.  
I am the writer of my life,  
I am the writer of my story in my own style.  
You can't have better tomorrow,  
If you're still thinking about yesterday.  
That is how,  
We can achieve our goal.

Compiled By

Bhumi

CS-2nd Year



## CHAT GPT

What is CHAT GPT? Chat GPT is a natural language processing tool driven by AI technology that allows you to have human like conversations and much more with the chatbot. The language model can answer questions and assist you with tasks such as composing emails, essays and codes.

### How Does CHAT GPT work?

Usage is currently open to the public free of charge because Chat GPT is in its research and feedback collection phase. A paid subscription version called CHAT GPT Plus was launched at the beginning of February.

### Who made CHAT GPT?

Chat GPT was made by Open AI, an AI and research company. The company launched CHAT GPT on November 30, 2022.

### Platform for CHAT GPT

Chat GPT runs on a language model architecture created by Open AI called the Generative Pre-trained Transformer (GPT). The specific GPT used by CHAT GPT is fine tuned from a model in the GPT 5 series, according to Open AI.

### How are people using Chat GPT?

This model has many functions in addition to answering simple questions. CHAT GPT can compose essays, describe art in great detail, create AI art prompts, have psychological conversations and even code for you. These are just overview of the helping sector of CHAT GPT But there are many more things that can help by chat GPT. It can give a clear solution to any problem by understanding human thoughts.

### Pros of that GPT:

- 1) CHAT GPT is a pre-trained generative transformer chatbot so one gets any kind of answer to the questions instantly.
- 2) When asking any questions Google suggests to a list of websites here CHAT GPT gave a direct answer to the question.
- 3) It is now proven that it is a less-time consuming thing when one can get solutions in a very quick time.
- 4) It is very effective and highly efficient for any person or any kind of company if it is can used in a proper way.
- 5) As it is pre-trained AI, so it can do natural conversations and it can understand human behaviour. So it is easy to use.
- 6) It can give the most appropriate answer to any questions which is very much effective.
- 7) This chatbot can provide a personalized answers to questions, so most of the users can get unique solutions in a different way.





- 8) It is free to use so there is no cost issue for using it.

## Cons of CHAT GPT

- 1) Despite of having answers to almost every question it has its limitation as it cannot provide some solutions.
- 2) Though it saves time but it is also hampering creativity of people.
- 3) Getting solutions from it easily people may lose their interest in hard work.
- 4) In the future, it can be a threat for reducing the thinking capabilities of individuals.
- 5) As it gives solutions from its data, most of time one does not justify whether those answers are wrong or right or inappropriate.
- 6) The most important of these cons is that it can slowly destroy human intelligence if people will become completely dependent on it instead of using their abilities.

## Conclusion

So, it can be said that CHAT GPT is impactful, efficient and there is no doubt in spite of having some advantages and disadvantages it is a revolutionary thing for humans but we should keep in mind that we should not become completely dependent on it. Yes, we can take help from it but we should have strong belief in our thinking capabilities, our human intelligence.

We should always remember that there is no AI or chatbot bigger than human intelligence. Human intelligence and brain are one of the most precious gifts of God.

Compiled By:

Bhumi

CS- 2nd Year

## *A TO Z Rules For A Happy Life*

- A** - Always Trust yourself.
- B** - Be Prepared For whatever work you undertake.
- C** - "can achieve everything" should Be your motto.
- D** - Don't blame others for your mistakes.
- E** - Enjoy your life the fullest.
- F** - Friendship is inexplicable treasure.
- G** - Guard you should have against your enemy.
- H** - Hope For the Best.
- I** - Irresponsibility should always be avoided.
- J** - Jealousy will only harm you.
- K** - Kindness is key to success.
- L** - Learn To love & forgive.
- M** - Make new friends, never forget old ones.
- N** - Never give up your goals.
- O** - Oppose the wrong.
- P** - Patience should be honoured as a good virtue.
- Q** - Quieten your mind when you are angry.
- R** - Remember god In happiness and sorrow.
- S** - Savings are gift / present for our Future.
- T** - Truthfulness should be practiced.
- U** - Use you Time judicially.
- V** - View everything in life with an optimistic view.
- W** - Willingly help the needy.
- X** - Xerox good attitude and erase bad habits
- Y** - You will Be The Master of your Destiny.
- Z** - Zeal if you have for what to do.

Compiled By:

Bhumi

CS- 2nd Year



## *Just Think our Engineering is Smarter Than other Countries or Not*

### **Top 5 countries having Best Smart Engineering**

1. **Denmark** has a strong reputation for being a leader in smart engineering and sustainable technologies. The country's focus on renewable energy, efficient transportation, and sustainable urban planning has made it a global model for smart engineering.

One example of Denmark's smart engineering is the Copenhagen Metro, which is an automated train system that runs entirely on clean energy. The system has significantly reduced traffic congestion and air pollution in the city.

Another example is the Sønderborg Project, which is a smart city initiative aimed at reducing energy consumption and carbon emissions in the city of Sønderborg. The project involves the use of renewable energy sources, energy-efficient buildings, and smart grids.

2. **Singapore** is also known for its strong focus on smart engineering and sustainable technologies. The country has implemented several initiatives to improve energy efficiency, reduce carbon emissions, and create sustainable urban environments.

One example of Singapore's smart engineering is the Smart Nation Initiative, which aims to leverage technology to create a more connected, efficient, and sustainable city-state. The initiative involves the use of data analytics, the Internet of Things (IoT), and other smart technologies to improve various aspects of daily life, from transportation to healthcare.

3. **Canada** is a country with a strong focus on sustainable technologies and smart engineering initiatives. The country has invested heavily in renewable energy, green infrastructure, and sustainable transportation to reduce its carbon footprint and improve the quality of life of its citizens.

One example of Canada's smart engineering is the Toronto Waterfront revitalization project, which is a sustainable urban development initiative aimed at transforming a former industrial area into a thriving, sustainable community. The project includes green buildings, renewable energy sources, and sustainable transportation options. It works on some projects for development.

Overall, Canada's focus on sustainable technologies and smart engineering initiatives has made it a leader in the field and a model for other countries to follow. The country's commitment to reducing its carbon footprint and promoting sustainable development is critical for creating a more sustainable future for all.

4. **South Korea** is a country that has made significant strides in smart engineering and sustainable technologies in recent years. The country has invested heavily in research and development to develop innovative solutions for a wide range of challenges, including energy efficiency, transportation, and sustainable urban development.

One example of South Korea's smart engineering is the development of its smart grid infrastructure. The country has implemented an advanced electricity grid that incorporates digital technology and renewable energy sources to optimize energy distribution and reduce energy waste.



Another example is the country's focus on electric vehicles and charging infrastructure. South Korea is home to several major electric vehicle manufacturers, including Hyundai and Kia, and has implemented several initiatives to promote the adoption of electric vehicles, including subsidies, tax incentives, and charging infrastructure.

Overall, South Korea's commitment to smart engineering and sustainable technologies has made it a leader in the field and a model for other countries to follow. The country's focus on innovation and sustainability is critical for creating a more sustainable future for all.

5. **Sweden** is known for its advanced technological infrastructure and focus on sustainable development. The country has invested heavily in smart engineering initiatives to reduce its carbon footprint and improve the quality of life of its citizens.

One example of Sweden's smart engineering is its transportation system. The country has implemented several innovative solutions to reduce traffic congestion and promote sustainable transportation, such as a congestion tax in Stockholm, a comprehensive network of bike lanes, and the development of electric and hybrid vehicles.

Sweden is also a leader in sustainable urban development, with several smart city projects underway. These projects incorporate cutting-edge technologies and design principles to create sustainable, livable communities that prioritize the well-being of residents and the environment.

Overall, Sweden's focus on smart engineering and sustainable technologies has made it a leader in the field and a model for other countries to follow. The country's commitment to innovation, sustainability, and quality of life is critical for creating a more sustainable future for all.

## Smart Engineering In India

India has a significant potential for smart engineering and sustainable technologies due to its rapidly growing population, urbanization, and increasing demand for energy. The country has made significant strides in recent years to invest in and promote sustainable technologies to improve the quality of life of its citizens while reducing its carbon footprint.

One example of India's smart engineering is its focus on renewable energy. The country has set a target of generating 175 GW of renewable energy by 2022 and has implemented several initiatives to achieve this goal, including the development of solar and wind energy projects and the promotion of energy-efficient buildings.

Another example is the development of smart cities, which is a government-led initiative aimed at developing sustainable, livable communities with a focus on technology and innovation. The initiative includes several projects, such as the development of smart transportation systems, waste management solutions, and energy-efficient buildings.

Overall, India's focus on smart engineering and sustainable technologies has the potential to make it a leader in the field and a model for other countries to follow. The country's commitment to sustainability and innovation is critical for creating a more sustainable future for all. However, there is still a long way to go, and several challenges need to be addressed, such as ensuring affordable access to sustainable technologies and implementing effective policies to promote sustainable development.





*There are several factors that affect smart engineering in India, both positively and negatively. Here are some of the key factors:*

**1.Economic Development:** Economic development is a significant factor that affects smart engineering in India. As the economy grows, there is an increase in demand for sustainable technologies and innovative solutions to address challenges such as transportation, energy, and waste management.

**2.Infrastructure:** The state of infrastructure in India, including roads, power, and telecommunication networks, can have a significant impact on smart engineering initiatives. The availability of infrastructure can influence the adoption and effectiveness of smart engineering solutions.

**3.Policy and Regulations:** The government's policies and regulations can play a crucial role in promoting or hindering smart engineering initiatives. Policies such as tax incentives, subsidies, and regulatory frameworks can promote the adoption of sustainable technologies and innovation.

**4.Education and Skilled Workforce:** A well-educated and skilled workforce is essential for promoting and implementing smart engineering solutions. A lack of skilled professionals and specialized education programs can hinder the growth of the sector.

**5.Social Awareness:** The level of awareness and acceptance of sustainable technologies among the general public can affect the success of smart engineering initiatives. Educating and raising awareness about the benefits of sustainable technologies can promote their adoption and effectiveness.

**6.Funding and Investment:** The availability of funding and investment opportunities can play a significant role in promoting the growth of smart engineering in India. Access to capital can help support research and development, as well as the implementation of sustainable technologies and infrastructure.

Overall, addressing these factors can help promote smart engineering initiatives in India and lead to a more sustainable future for all.

This way we can see that India is very poor in smart engineering or In development our upcoming engineer needs to be more curious about technology or smart engineering.

And if we work on this steps our India will also comes in top 10 in smart engineering



Compiled by:

Divyansh

CS-1st Year



## *Chandrayaan - 3*

**Chandrayaan - 3** is third and most recent lunar Indian Space Research exploration mission under Chandrayaan programme. It consists of lander named Vikram and a rover named Pragyan similar to Chandrayaan - 2, but does not have an orbiter. Its propulsion module behaves like a communication relay satellite. The propulsion module carries the Lander and rover configuration until the spacecraft is in a 100 km lunar orbit.



Manufacturer = ISRO

Launch mass = 3900 kg

Payload mass = Propulsion Module : 2148.00 kg

Lander Module (Vikram) : 1752 kg including Rover (Pragyan) of 26 kg

Total : 3900.00 kg

### **Start of mission :**

Launch date : 14 July

Launch site : Satish Dhawan Space Centre., Sriharikota, Andhra Pradesh.

Contractor : ISRO

Landing date : 23 August 2023

**Following Chandrayaan - 2**, where a last minute glitch in the landing guidance software led to the Lander crashing after entering lunar orbit, another lunar mission was proposed.

**The launch of Chandrayaan - 3** took place on 14 July 2023 and lunar orbit injection of 100 km circular polar orbit was completed successfully as part of phase one. The Lander and rover have landed near the lunar South pole region on 23 August 2023.

### **The mission objectives of Chandrayaan-3 are:**

1. To demonstrate Safe and Soft Landing on Lunar Surface
2. To demonstrate Rover roving on the moon and
3. To conduct in-situ scientific experiments.

To achieve the mission objectives, several advanced technologies are present in Lander such as,

1. Altimeters: Laser & RF based Altimeters
2. Velocimeters: Laser Doppler Velocimeter & Lander Horizontal Velocity Camera
3. Inertial Measurement: Laser Gyro based Inertial referencing and Accelerometer package
4. Propulsion System: 800N Throttleable Liquid Engines, 58N attitude thrusters & Throttleable Engine Control Electronics



5. Navigation, Guidance & Control (NGC): Powered Descent Trajectory design and associate software elements
6. Hazard Detection and Avoidance: Lander Hazard Detection & Avoidance Camera and Processing Algorithm
7. Landing Leg Mechanism.

To demonstrate the above said advanced technologies in earth condition, several Lander special tests have been planned and carried out successfully viz.

1. Integrated Cold Test - For the demonstration of Integrated Sensors & Navigation performance test using helicopter as test platform
2. Integrated Hot test – For the demonstration of closed loop performance test with sensors, actuators and NGC using Tower crane as test platform
3. Lander Leg mechanism performance test on a lunar simulant test bed simulating different touch down conditions.

**Chandrayaan -3** has landed successfully after a 40day journey. India has created a history with the accomplishment of this mission.

Compiled by

Divyashi

CE- 1st Year

Source: [www.isro.gov.in](http://www.isro.gov.in)





## पिता की कमाई



पिता की जिंदगी की कमाई खत्म हो जाती है बच्चों को पढ़ाने में और बच्चे बोलते हैं, आज पढ़ने का मन नहीं है।

किन्तु कभी आप ने सोचा है कि अगर पिता भी ऐसे ही कहे हमारी तरह कि आज काम करने का मन नहीं है। कल काम कर लेंगे, पैसे कल कमा लेंगे तो क्या होगा ? कभी सोचा है आपने नहीं सोचा होगा मैं बताता हूँ क्या होगा अगर वो हमारी तरह कहें तो ना आप अच्छा खा पाते, ना आप पढ़ पाते, ना आप बेहतरीन जिन्दगी जी पाते।

कभी सोच कर देखना, पिता अपनी सारी खुशियों को एक तरफ रख कर

अपने बच्चों की खुशियों को पूरा करते हैं।

पिता अपनी खुशी की कुर्बानियां दे कर, बिना कुछ सोचे समझे अपने बच्चों की खुशियां पूरी करते हैं।

और मौसम की परवाह किए बिना कभी तेज बारिश तो ,कभी तेज गर्मी , तो कभी सर्दों में भी, निरंतर मेहनत करते रहते हैं। ताकि उनके बच्चों का भविष्य उज्ज्वल (अच्छा) हो और पुराने समय में जिनके पिता शिक्षा ग्रहण नहीं कर पाए थे उनको अच्छे से पता है कि उनका जीवन कैसे अंधकार में गुजर गया।

उन्होंने किन -किन परिस्थितियों का सामना किया है। उनको भली भांति ज्ञात है। पिता सोचते हैं कि मेरा जीवन तो अंधकार में निकल जाएगा, परंतु अपने बच्चों का भविष्य उज्ज्वल (अच्छा) बना दूँ। ताकि उनका अंधकार दूर हो जाए और उनको जो परिस्थिति का सामना ना करना पड़े। इसलिए पिता निरंतर मेहनत करते हैं।

किन्तु बच्चे बोलते हैं कि आज पढ़ने का मन नहीं है कल से पढ़ेंगे। पिता मौन होकर संघर्ष करते हैं ताकि बच्चे कामयाब हों।

पिता की हिम्मत बनो ना कि कमजोरी।

Written By:

Prem Singh

IT- 1st Year

## QUOTES

- 1) The best way to predict your future is to create it.
- 2) If the plan doesn't work change the plan, not the goal.
- 3) Tough times do not exist for long, but tough people do.
- 4) Gratitude is an attitude which can take you to altitude.



## *No, Honking!*

Most of us are accustomed to the Sounds we hear everyday whether it is loud music, the television, people talking on their phone, the traffic, and even dogs barking in the middle of the night. These have all but become a part of the urban culture, and according to current mindset they rarely disturb us. Do they have any effect on our mind? Let us have a look.

- Honking has a certain frequency length, which triggers the brain resulting in release of stress and anxiety.
- Just imagine standing in a traffic and listening to Continuous honking sound, a person loses awareness and may result in collateral damage. The Sound of honks puts the person into delusions and leads to accidents.
- The psychological effects of honks are: aggressiveness, lack of decision making, lack of proper sleep.
- How No honking movement help out?
- No honking movement is a key player in removing noise pollution in Urban areas. Since birds are
- largely exposed to noise, their life expectancy will decrease because frequency affects their heart rate.
- People who are stuck in traffic jam can figure out solutions to their daily problems because honking won't be there and there is less chance of getting stressed.
- Behaviour of people will have a great change exposure to honk frequency causes stress and aggressiveness.
- A person with aggressive and stressful nature can neither be a good employee nor a good social being.
- How No honking habit has to be brought into people's Consciousness?
- People should be made aware of psychological effects.
- People should practice in the beginning with one kilometer no honking challenge.
- Certain competition schemes should be launched like 'No Honking Challenge' where citizens participate.
- People can be made aware through television, radio stations and posters.



Written By:  
Rahul  
CS-3rd Year





## *Village of My Dreams*

Villages are the backbone of every nation. If there existed the benchmark to consider a country as prosperous I would make it, "If you want to check whether a nation is prosperous, then don't judge by its roads or infrastructure in the cities, instead judge it by the condition of its villages where the real nation and its people reside".

In late 1980's a visionary leader, social activist, Padamshree awardee founder of Vidya Bhawan Society Dr. Mohan Sinha Ji Mehta wrote an article "Mere Sapno Ka Gaanv" Dr. Mehta discussed forty three years ago how an ideal village should be developed. According to his vision, the village should consist basic facilities of water supply, electricity, sanitation, sewage, education institute with proper infrastructure.

Just imagine, such facilities at that time would be considered as luxury with his vision and help from Government development started today. Now, most of the villages have these facilities. Inspired from Shri Mehta sir's article, I am writing an "updated version" term commonly used nowadays, if sir, in 2023 would plan and implement new features, what would they be? Talks are fictional but the work will be realistic.

In this article we will discuss how a village with technology both hand in hand would contribute towards growth of its nation.

### **Pollution control by not burning woods**

- Most of the people in village use wood in chulha to cook food. Burning of wood generate smoke which is hazardous and can cause sickness.
- To solve this issue, a bio gas plant will be set up outside the residential area where cylinders can be filled or direct pipeline could be given to the villagers.
- Fuel for biogas generation will be agricultural waste, animal manure, human waste, sewage, food waste etc. which is easily available.

### **"Self-powered" by use of sustainable energy modes.**

- Use of solar panels on the roof of every house, and setting up of solar farms which will generate required amount of electricity and extra electricity which can be sold.
- Most of the villages are near hilly areas, wind turbines will be used for power generation. With use of sustainable resources of energy, the village can use the money earned from selling electricity for the development purpose.

### **Use of IoT technology powered by AI for securing the village.**

- The village will have one central security monitoring block, which will consist of high-end computers packed with drones.
- The street lights will have surveillance cameras which will have night vision along with the use of image processing.
- If any wild animal or threat is captured, it will ring the alarm in the village.

### **Use of modern approach in agriculture.**

- Green house farming by setting up artificial environment with use of AI for controlling temperature and sensors for irrigation purpose.





- Soil Testing Lab to test the fertility, moisture, temperature etc. of soil.
- Few Acres of land will be reserved and establish set-up between villages for research and development purpose.
- Labs will have contact with meteorological department for weather forecast information.
- Transfer of technology will be provided by the industry experts through online video sessions at labs.
- Farmers will be taught to grow crops which will give them more profit.
- Use of UMV (unmanned vehicle, drones) such as mini aircrafts for distribution of seeds, pesticide, or fertilizers.

### **Smart school with skill enhancement centres**

- School's infrastructure will be normal but will be functioning on digital basis. Facial and fingerprints will be used for attendance.
- Will focus on industrial and job-oriented subjects rather than traditional subjects.
- Online seminars will be conducted for students to learn from industry experts.
- Skills such as coding and engineering related technical fundamentals will be taught along with financial planning and management skills.

### **Sanitation and waste management**

- The village will have properly engineered sewage system.
- The man holes will be cleaned using robots instead of manual labour which will not risk the life of workers. For this purpose, the manual labour will be given knowledge about operating the robot, and hence, his job will be secure.
- The village will have proper waste management system. If it is leftover food or bio-waste, then it will be used for producing gas at biogas plant.
- Plastic waste will be sent to cities for recycling purpose.

### **Women empowerment**

- "Unity is meaningless without the accompaniment of women. Education is fruitless without educated women and agitation is incomplete without the strength of women."
- Between four villages there will be a joint institution where higher education to girls will be provided.
- Institute will have tie-up with government college of cities which will provide education through digital media to girls who cannot travel far.
- The institute will have workshop on entrepreneurship and self-employment through which they will be independent.
- Small medium sized industry will be setup with the help of private funding where educated women will be the lead member from village institutions and will provide employment to other women of the village.

### **Conclusion**

From the above points how the village of 1980 would get an updation which would make it more advanced. If sir were present today, his idea and vision would be much greater than the ideas we discussed, they would be larger than life.

Written by: Rahul Suthar, CS, 3rd Year



## *A Day in the Past*

Time 7:00 am, Date: 2nd April 2023

Rahul leaves from his home to board the bus which will drop him at Fatehpura. While sitting near the window he imagines, "If one could go back in the past, then it would be the best option to take advice from our legends, and I would most probably meet my two favorites," said Rahul. It was 8:00 am. His stop had arrived. As soon as he moved out of the bus, a fast car came towards him and hit him by the rear side of the car and braked. Rahul experienced a blackout and fell unconsciously.

Time: unknown, Date: unknown.

Rahul opened his eyes, found himself in a room with straw roof lying on a cot, he checked his uniform and his body that he found no injuries. "Saved by an inch" he took a sigh of relief and was thinking there's no one here then who brought him in.

He got down from the cot and took his bag and opened the door. He was shocked to see that there are no proper roads, empty areas, and he is wondering where he has come.

After walking a few meters he saw children standing, he rushed towards them and asked, "Where are you going?" The child replied, "We all study in the same school, we are waiting for our Tonga to come, school is not far though". Rahul again asked, "What is the name of your school?" Vidya Bhawan the boy replied with excitement. One of them was reading Newspaper. Rahul slowly peeped at it and tried reading the news headline. However, little did he know he would find himself in an unimaginable era.

While checking on headlines, Rahul's eyes went on the date it read as, "5th June 1961". Rahul's eyes popped out of shock, "Leap of 62 years!". He couldn't believe, saw the board, it was written "Fatehpura". He thought it is a dream and pinched himself he was feeling the pain but there was no sign of change.

He left from that place and walked forward sitting under a tree, he spoke to himself, "62 years ago this city really looked like a Paradise, beautiful birds which are to be considered extremely rare in 2023, hardly there are cars on the road, a bus passes after every three hours, no sign of pollution. I can't go to my village from here because it's 1961".

Rahul walked around and saw beautiful farms which existed before urbanization, he went to visit the government MB hospital. After reaching the place he saw that hospital isn't as big as it is in 2023, he saw very few people walking. He didn't go in and sat outside a small restaurant, the owner shop was generous offered him snacks and said, "You are school boy I don't need your money". Rahul thanked him and said, "Buy more real estate as you can afford it now. You don't have to work rest of your life afterwards". The shopkeeper said, "I will buy it then! Can you guarantee your words?" Rahul replied, "Let me tell you a secret. I am from year 2023, look at my clothes and watch, it isn't analog".

He saw a big Banyan tree. This place is Chetak Circle. In comparison to 2023, there is no traffic and



no crowd here. After spending few hours of happiness, he thought about his family members who are in 2023. "Will he be able to see them again?" he wondered. A luxurious Mercedes of 1960 came near him. The driver asked him, "In which school do you study?" Rahul said, "Vidya Bhawan Polytechnic College". The driver replied, "Sit in, sir wants to have a word with you".

Rahul sat into the car. He was surprised to see that he is sitting next to Dr. Mohan Sinha Mehta Sb. He touched Dr. Mehta's feet to take his blessing. Rahul explained what has happened with him. He opened his bag, showed his college books which were published in 2010 and college ID card of year 2023.

**Dr. Mehta :** You are my family member from future.

**Rahul:** Yes sir! You are inspiration to many. I have learnt lot from you.

**Dr. Mehta :** Tell me what are we doing in future.

**Rahul :** Sir, we are doing extremely good work for the society, the school is best in its field ,the Polytechnic institute has added more branches and we are the "Best Polytechnic Institute" in Northern India.

There was a smile on sir's face after listening to the achievements of his organization.

**Rahul:** Sir, I am telling honestly, I am from 2023.

**Dr. Mehta :** I totally believe you, son. There are known knowns, sometimes known unknown and there are unknown unknowns.

**Rahul:** Sir, can you please explain me.

**Dr. Mehta:** There are things we know that we know about them, we also know that we don't know anything about few things, at last there are few things that we don't know that they exist and don't know anything about them.

**Rahul :** Sir, I always wanted to take advice from you.

**Dr. Mehta :** Ask what do you want to ask.

The car started. It was 4:00 pm. They went towards the old city.

**Rahul:** I like studying computer and also many other fields of interest but I can't decide on which to make my career?

**Dr. Mehta:** It's simple. Pick up one field enter it, set fire by excelling in it then leave it, work on next interest of yours. You can be an engineer, a diplomat in series not necessary to do a work for life time. We are not tree to be grounded, we have to move towards the excellence.

It was 5:00 pm. The car reached near Jagdish temple. From the palace, a letter was given to sir. The driver was ordered to take the car into the palace.

Rahul and Dr. Mehta went inside the palace, "Nothing has changed in this palace," said Rahul.

Dr. Mehta ordered the guard to show Rahul his room and said to change and come to garden area after an hour.

It was 6:00 pm. The sun was about to dive into the lakes of Udaipur. Rahul was walking in the corridor and our "Bhaisaab" (sir is mostly referred to with this name at institute) were in the lawn area.





**Dr. Mehta:** Are you thinking about your family?

**Rahul:** Yes, I am thinking how will I go back?

**Dr. Mehta:** Don't worry. Life is a sequence of dreams and we are conscious dreamers.

**Rahul:** Sir, to be successful in life what a person should be like? In which skill should he excel?

**Dr. Mehta:** It's not necessary that certain traits decide whether a person will be successful. Fundamental traits such as honesty and faith are important. One with intellect can accumulate wealth from society but intellect and humble person will work for revolutionizing the society. Skills do play a role but it depends on your area of interest. If you don't find a particular skill to excel in, then being honest with dedication is the best skill one can practice.

Dr. Mehta ended the conversation and they had dinner together. It was 9:00 pm. It was time to sleep and sir left. Meanwhile, Rahul called from behind and asked.

**Rahul:** Sir! You could have asked me anything related to your future but you didn't, why?

**Dr. Mehta:** If the result of wars were predetermined, then even a coward will participate in it. But real warriors don't bother about themselves. They just make their efforts. I know that I am not here forever but I'll plan things which will change the life of people forever. Good night!

**Rahul:** Good night, sir.

Rahul went to the room and on the bed was imagining his family members and fell asleep.

Rahul opened his eyes, saw two persons staring at him. Rahul asked, "Now, who are you and which year is it now?"

"We were the one who brought you here when you fell unconscious on the road," said one of them, "It is April 2nd 12:00 pm," he added.

Rahul explained them that in four hours of unconscious state he spent 12 hours of the day.

The two men who brought Rahul were psychologists. They explained Rahul that he went through catastrophic state of mind. It is the theory historians use to assume what if particular events change, what would have impacted the mankind. For example, if Britishers had lost in 1857, then whole history of India would be different. You were thinking related to time travel before accident, so it happened with you. Your consciousness might have travelled into multi-verse or time travelled.

When you fire a bullet you can predict its end results but when you fire an atom or electron then it can change its path and move into other dimensions. As soon as u met with the accident your consciousness was discharged and it just travelled into past.

Rahul was happy that he is back again and he is glad that he met Dr. Mohan sir. He boarded the bus and went back home with an interesting story.

Written By:

Rahul

CS-3rd Year



## Topic - Solar Energy

The sun is the source of all energy sources whether it is conventional energy source or non-conventional energy source. The sun provides us heat & light free of cost, which ultimately provide us energy & vision.

The energy obtained from the sun is called solar energy. About one third of portion of the sunrays consists of infrared rays. These infrared rays have a property that they heat the objects on which they fall. As a result heat is produced. This heat can be used for various purposes.

Though a large amount of sun's energy is falling on the earth but it is very much diffused or scattered. Therefore, in order to harness solar energy, it's primary requirement is to collect sun's energy & concentrate it.

In applications, where a high temperature is required, the sun light is concentrated by using large curve shaped reflectors called concave reflectors. A conical reflector concentrates all the sunlight to one point called focus. At this point much more quantity of heat is absorbed & which in turn is used to generate high temperature & thus electricity is produced.

### Types of Solar Power Plant ( Solar Energy Generation)

#### 1. Concentrated Solar Power (CSP) Plant

(a) Solar Power Tower      (b) Parabolic Troughs      (c) Parabolic Dish

#### 2. Solar Photovoltaic (PV) Power Plant.

Government of India launched Jawaharlal Nehru National Solar Mission on 11th January 2010, as one of its eight missions under National from Action Plan on Climate change (NAPCC-2008). India's biggest Solar power plants are located in Rajasthan, Karnataka, Andhra Pradesh, Madhya Pradesh & Tamil Nadu.

Solar Power Plants	Power Generation	Area
1. Bhadla Solar Park(Rajasthan)	2250 MW	14000Acres
2. Pavagada Solar Park (Karnataka)	2000 MW	13000Acres
3. Kurnool Ultra Mega Solar Park(Andhra Pradesh)	1000 MW	9932 Acres
4. NP kunta (Andra Pradesh)	1500MW	7924 Acres
5. Rewa Ultra Mega Solar (Madhya Pradesh)	750MW	1590 Acres
6. Charanke Solar Park (Gujarat)	615MW	4900 Acres
7. Kamuthi Solar Power Project (Tamil Nadu)	468MW	2500 Acres



Compiled By:  
Harsh Kumawat  
Vishvpal Singh Chundawat  
Hemant Prajapat

## *No 'Surnames' here, Call us all by our Names Pls!*

*Says Polytechnic Fraternity*

Vidya Bhawan Polytechnic College is the first & only educational institution in the county, where surnames are not mentioned on the nameplates, notice boards & even in the staff-students attendance registers.



*Surnames have been completely removed from all nameplates in the college.*

At a time when castes and religions are believed to be the root of growing intolerance in society, this educational institution Vidya Bhawan Polytechnic College stands out as a model for its practice, though a very small step, in reducing the stereotypes based on identity. The Polytechnic has done away with the age-old practice of surname usage in maintaining records. The last names stay only for the establishment purposes where the mention of surnames is mandatory in the upkeep of public records eg. Admission forms, mark sheet and certificates of the students.

### **First Name First Initiative**

At Polytechnic, from the students, to the teaching and non-teaching staff, even the Principal are identified by their first names only. We call it the First Name First Initiative (FNFI) under which only the first name is used for anyone who is a part of the college. Under FNFI, the surnames of students have been removed from the attendance registers and likewise last name of the staff too have been striked off from the name plates. We are all known by our first name.

Conditioning was difficult but successful

The idea struck in 2015 and with some initial inhibitions, people started conditioning themselves to the new mannerism. By 2017 the



*Surnames have been completely removed from all nameplates in the college.*





initiative was completely applied in the daily management of college affairs. The last names were cleared from the notice boards. New nameplates were installed outside offices with only the first names of the office bearers and faculty members outside their respective departments. Now after 5 years, everyone is finding the initiative a pleasant deviation from conventionalism.



*The staff and students are known only by their first names in the college premises.*

## Casteism deeply ingrained in social system

"Casteism is so ingrained and conditioned in our system and all of us are somewhere tuned in for it. In a society like ours with varied cultures, diversity is a strength but when the difference leads to biases then the aspect becomes rather a hindrance and we do not want that our students too nurture such biases inside them". The college has strength of 500 students who are enrolled for engineering diploma courses and rubber technology post-diploma course. The teaching, technical and helping staff strength is 65 including 12 female workers. "Everyone talks of equality but in reality our community had been discriminated. But in this college, we are all actually equals. We don't have separate tableware for tea and refreshments".

विद्या भवन पॉलिटेक्निक महाविद्यालय, उदयपुर (राज.)						
स्थापित 1956						
डिप्लोमा पाठ्यक्रम में प्रथम स्थान प्राप्त करने वाले विद्यार्थियों की सूची						
क्र.सं.	सत्र	सिविल	इलेक्ट्रॉनिक्स	कम्प्यूटर साइंस	इलेक्ट्रिकल	इन्फोर्मेशन टेक्नोलॉजी
59	2017-18	श्री वैदित्य	श्री महेश्वर	श्री नमन	सुश्री प्रीति	श्री शिवन
60	2018-19	श्री लोकेश	सुश्री शिखा	श्री सुरेश	सुश्री ईना	श्री शिवान
61	2019-20	श्री जयदीप	श्री विजय सिंह	श्री लोकेन्द्र	श्री दीपेश	श्री वर्मा
62	2020-21	सुश्री काजल	सुश्री प्रमोद	श्री गौरव	श्री हितेश	श्री दीपक
63	2021-22	श्री शैलेन्द्र	श्री सुभाष	सुश्री गायत्री	श्री आदेश	श्री जतिन

*The display board of the merit holders of the institution doesn't carry last names.*

## Confusion prevailed in duplicate names

Accepting the new way hadn't been easy with confusion prevailing where pupils with same names happened to be in a class. "We found a way out and in such cases 'initials' of last name are used to confirm identities". The FNF initiative has met 100 % success rate. The college administration even removed the surnames from the display boards of the merit holders of the institution. "We can't do away with the last names completely as they have to be kept in the service records of staff members. However, on a superficial level, this initiative has helped to a large extent in changing the mindset especially of the younger generation and inculcating a feeling of oneness," said the proud Principal.

2 Principal & Chief Information Officer	Dr. ANIL 9414168945	6 Chair person Vishakha Committee	Ms. SONU 9413481524
3 HOD/Incharges		7. PRESIDENT, Old Students Association (पूर्व विद्यार्थी संस्था)	Er. NAVEEN 9414166788
I. Civil Engineering	Er. JAI PRAKASH 9414386207	8. Chair person Training & Placement Cell.	Er. PANKAJ KUMAR 8233634505
II. Electronic Engineering	Dr. DEEPAK 9414263247	9. OFFICE SUPERINTENDENT	Mr. SUDHIR 9828215300
III. Electrical Engineering	Er. PRAKASH 9414358090	Incharge, Scholarship	Mr. SIKANDER 9782323142
IV. Information Tec	Er. GRURAV 9413217780	10. Incharge, N.S.S.	Er. Gaurang 8233394907
V. Rubber Technology	Dr. VIKRAM 7665009558	11. Incharge, Students Section	Mr. Nand Kishor
VI. Computer Science & Engg.	Er. DEVENDRA 9660552182	12. Chair person, Parents Association	
VII. Science & Humanities	Ms. SONU 9413481664	13. Hostel Warden	Mr. SUDHIR 9828215300
4. Academic Coordinator	Er. CHANDRESH 9460253185	14. Librarian	SM. TINA 8764112463
5 Grievance Committee	Dr. DEEPAK 9414263247	15. Co-Ordinator IET & ISTE chapters	Er. MO. SIKANDER 9782323142

*The staff and students are known only by their first names in the college premises.*

## Alphabetical order rules over Hierarchy

Another major change the Vidya Bhawan Society has implemented for all the 13 institutions run by it, is by doing away with the hierarchical way of keeping attendance records. Society President Ajay and CEO Dr. Anurag have made it mandatory for the affiliated institutions to maintain the attendance record strictly on alphabetic order. "This step has been taken to promote values based on equal respect for people of all races, gender, religion and socio-economic background. To develop a broad and open minded outlook on life, such baby steps come really handy," President said.



## *New Road: Mohan Path*



**Need, Importance and Usefulness of Polytechnic Road :** The Polytechnic was established in the year 1956, and since then, it did not have a full-fledged separate campus and an entry gate. The entry to the institute was through the VB Rural Institute. Over time the Polytechnic expanded itself into a full-fledged institute with the main Polytechnic building, the Saraswati Mechatronics Centre (SMC - The philanthropic Initiative of SSF), the Rubber Technology Department, Community Development through Polytechnic - CDTP Skill Centre and so on. It was being felt for a long time that the Polytechnic should have its own entrance, which

would strengthen its identity independent of the Rural Institute in addition to improving convenience of the students, their guardians and the staff.

For the good and vibrant academic atmosphere, it was planned to make the VBRI campus vehicle free. All students were requested to park their vehicles at the parking lot of VBRI. The students of Polytechnic and their parents at large did not agree for that. We allowed Polytechnic students to take their vehicles to the Polytechnic through VBRI but the students of VBRI opposed that there could not be two systems. Their argument was that If Polytechnic students can move on vehicle, we should also not be stopped. And they started stopping the students of Polytechnic. All these led to clash between the students of Polytechnic and the RI. Some of the students of both the institutions escalated the situation at such a level that it became difficult to avoid the clashes between student groups. Hence to have a separate road to Polytechnic became an urgency. Therefore, on the request of Polytechnic, Vidya Bhawan Society agreed to create a new approach road and an entry gate for the Polytechnic. Accordingly, a new entrance road for the Polytechnic, “Mohan Path” has been constructed with a separate gate on Syphon- Badgaon road.

This new development along with the carpeting of the internal road from the Polytechnic main building has built better connectivity with SMC - Rubber Technology Department - Workshop and the old Anganwadi block. This development has improved the look of the Polytechnic campus to a very great extent. It would result in increasing in admissions too as now the aspirants can directly approach to the Polytechnic and the SMC. It is also helping the VBRI to maintain its campus as vehicle free; and maintain good academic atmosphere. The new road “Mohan Path” would remind the present and future generations to follow the path shown by the founder of Vidya Bhawan, Bhaisahab Shri Mohan Singh Ji Mehta. This institutional development activity is also an exemplary model wherein, the total expenditure is largely shared in the form of kind donations & contributions from the well-wishers and alumnus of the Vidya Bhawan.







Er. Gaurang  
Incharge, NSS

## राष्ट्रीय सेवा योजना 2022-2023

राष्ट्रीय सेवा योजना इकाई द्वारा वर्ष भर विभिन्न गतिविधियों का आयोजन किया गया, जिसका विवरण इस प्रकार है:-

### उद्घाटन एवं स्वयं पंजीकरण कार्यक्रम:-

राष्ट्रीय सेवा योजना इकाई की वर्ष 2022-2023 की वार्षिक गतिविधियों का उद्घाटन महाविद्यालय परिसर में दिनांक 02.06.2023 को किया गया, जिसमें विद्यार्थियों से नामांकन पत्र भरवाकर पंजीकरण करवाया गया। कार्यक्रम में योग का महत्व बताया गया, साथ ही योग करवाया गया। प्राचार्य ने राष्ट्रीय सेवा योजना का जीवन में महत्व बताया, एन.एस.एस. प्रभारी गौरांग शर्मा ने विद्यार्थियों को एन.एस.एस. की विभिन्न गतिविधियों की जानकारी दी।

### एक दिवसीय शिविर

- दिनांक 02.09.2022 को एक दिवसीय शिविर का आयोजन किया गया। कार्यक्रम में डॉ. अशोक बैरवा, रोटरी क्लब की श्रीमती कलावती एवं डॉ. पुखराज शुक्लेचा ने विद्यार्थियों को आँखों में होने वाली समस्याओं पर चर्चा की और उनसे बचने के घरेलू उपचार बताये।
- द्वितीय एक दिवसीय शिविर में डेंटल चेक अप कैंप आयोजित किया गया। जिसमें दर्शन डेंटल कॉलेज के वरिष्ठ चिकित्सक एवं रेजिडेंट चिकित्सकों ने विद्यार्थियों की दांतों की समस्याओं का समाधान किया व सम्बन्धित जानकारी दी। विद्यार्थियों को तंबाकू/गुटखे से होने वाली दांतों की समस्याओं से अवगत करवाया एवं गंभीर बीमारियों से बचने के तरीके बताये।
- तृतीय एक दिवसीय शिविर में गांधी एवं शास्त्री जयंती मनाई गई। कार्यक्रम में विद्यार्थियों द्वारा महाविद्यालय में सफाई की गई। विशिष्ट अतिथि श्री दिलीप ने विद्यार्थियों को ध्वनि प्रदूषण से होने वाले दुष्प्रभावों के बारे में अवगत कराया एवं "नो हॉर्नकिंग" मुहीम की जानकारी दी एवं संकल्प दिलवाया। विद्यार्थियों ने भी "नो हॉर्नकिंग" विषय पर अपने सुझाव दिये एवं पोस्टर बनाकर लोगों को जागरूक किया। सर्वश्रेष्ठ संदेश देने वाले विद्यार्थी को पुरस्कृत किया। प्राचार्य ने गांधी जी एवं शास्त्री जी के जीवन पर प्रकाश डालते हुये प्रेरक प्रसंग बताये एवं उनके विचारों एवं मूल्यों का महत्व बताया।
- "लेखन कार्य में कुशलता" पर दिनांक 27.11.2022 को शिविर आयोजित किया गया। मुख्य अतिथि श्री देवेश मोहन ने विद्यार्थियों को समझाया कि किस प्रकार अभिव्यक्ति को किताब का रूप दिया जाता है। अन्य अतिथियों ने अपने सम्बोधन में लेखन कार्य को बेहतर बनाने के तरीके बताये। प्राचार्य ने विद्यार्थियों को लेखन कार्य की इंजीनियरिंग क्षेत्र में उपयोगिता बताई। कार्यक्रम में श्री देवेश मोहन द्वारा अपनी पुस्तक "बिल्ड युअर मसल" एवं पॉलीटेक्निक प्राध्यापक डा. महेन्द्र एवं डॉ. विक्रम द्वारा लिखित पुस्तक "अप्लाइड केमेस्ट्री" का विमोचन किया गया।
- "व्यक्तित्व निर्माण" पर दिनांक 13.02.2023 को शिविर आयोजित किया गया। मुख्य अतिथि श्री रमेशचन्द्र ने विद्यार्थियों को जीवन में सफल बनने के लिए लक्ष्य निर्धारित कर सही दिशा में लगातार मेहनत एवं डट कर चुनौतियों का सामना करने का महत्व बताया। विद्यार्थियों ने अपने जीवन में आने वाली समस्याओं पर प्रश्न पूछे जिनके समाधान देकर विद्यार्थियों को सही दिशा में बढ़ने का आत्मविश्वास प्राप्त हुआ। साथ ही जीवन में अनुशासन का महत्व बताया।
- विश्व जल दिवस के अवसर पर दिनांक 22.03.2023 को प्रकृति साधना केन्द्र में शिविर आयोजित किया गया। शिविर के मुख्य अतिथि पर्यावरणविद् डॉ. मोहन प्रकाश ने विद्यार्थियों को प्रकृति एवं जल संरक्षण के तरीके बताये। प्रकृति के प्रति जिम्मेदारी से अवगत करवाया एवं प्रकृति के दोहन से होने वाले दुष्प्रभाव पर भी प्रकाश डाला। प्राध्यापकों के नेतृत्व में विद्यार्थियों द्वारा ट्रेकिंग की गई व प्रकृति के मध्य ले जाया गया। जहाँ सभी ने प्रकृति की सुंदरता को देखा और प्रकृति संरक्षण हेतु संकल्पित हुये। साथ ही भीलों का बेदला गांव में बेराजगारी एवं साक्षरता का सर्वेक्षण किया एवं सरकार को अग्रेषित किया।



*Integrated Water Resources Assessment Of Upper  
Berach (Ahar) Basin, Udaipur, Danida  
– Funded Project*

## Introduction

This report presents an overview of the activities undertaken in the previous year as part of the project titled "Integrated Water Resources Assessment of Upper Berach Basin (Ahar River)" in Udaipur District. The project focused on citizen engagement to generate hydrological and ecological data, as well as raise awareness among the community. Activities included training students on water sampling, water quality testing, rainfall measurements, groundwater level measurements, and ecological health assessment. Additionally, workshops were organized in collaboration with a citizen science network comprising 17 institutes located within the micro catchments of Ahar River (Fig 1).

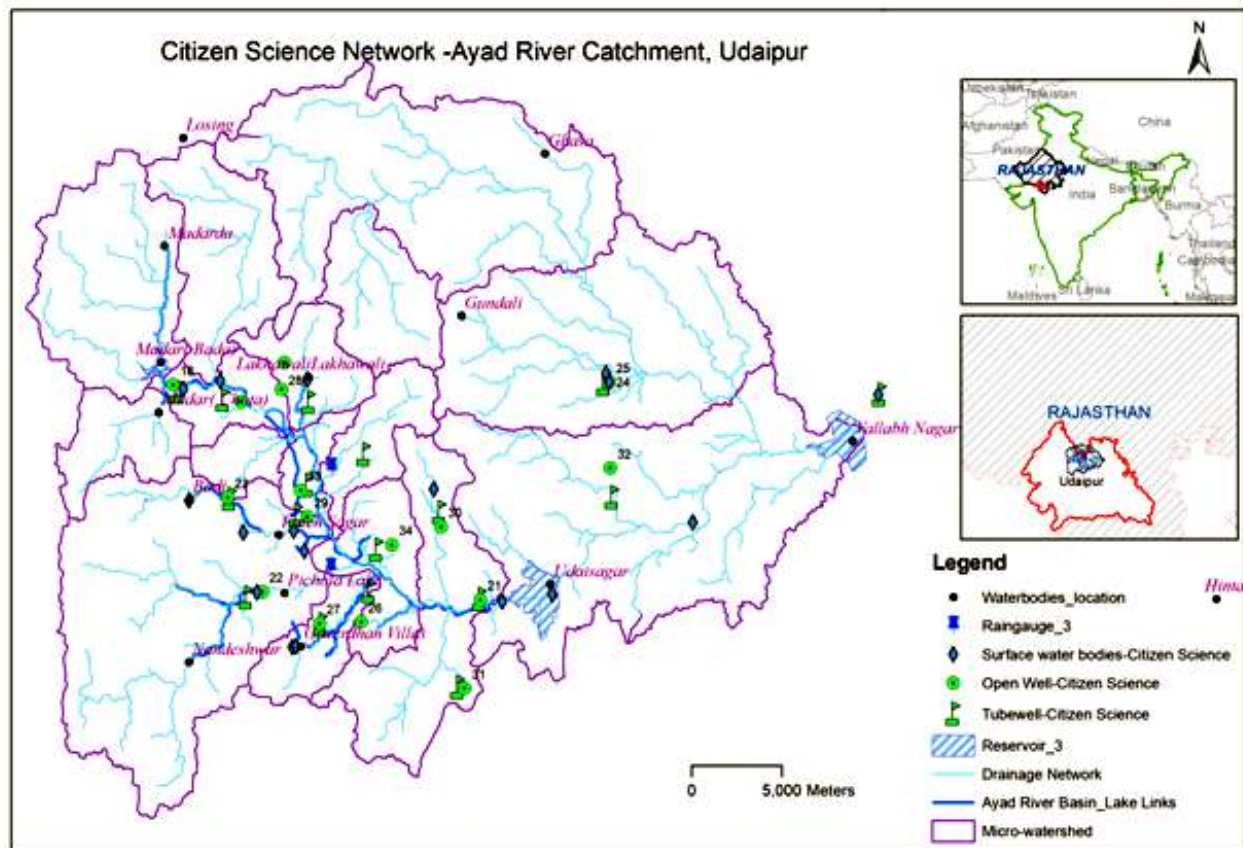


Figure Location map of citizen science network of Ahar river micro-catchments

## Progress of the Study

The ongoing study has provided a comprehensive understanding of the water resources in the Udaipur district, resulting in several key outcomes:

1. **Citizen Science Network:** It has been decided to create a network comprising twenty senior secondary schools, two universities, and subject matter experts from Udaipur has been



established to facilitate community engagement in water resource management within the Ahar River catchment. The citizen science network is involved in rainfall measurements, water sampling and water quality testing of surface and groundwater, data upload in Mywell app, ecological health assessment of surface water bodies. (Vidya Bhawan Polytechnic and Development Alternatives are taking lead in this outcome)

2. **Hydrological Model:** An integrated model utilizing MIKE SHE software has been developed to comprehend the hydrological and hydraulic functioning of the upstream and downstream catchments of the Ahar River system. (Project partner DHI and University of Copenhagen are taking lead in generating this outcome)
3. **Data Support System (DSS):** A web-enabled and GIS-supported DSS has been established, containing a time series of hydrological and meteorological data, as well as geo-referenced information on the physical elements of the Ahar River catchment. (Project partner DHI is taking lead in generating this outcome)
4. **Project Website:** A dedicated project website has been created to enable citizens to understand hydrological settings of Udaipur. (Project partner DHI is taking lead in generating this outcome)

## Highlights

### 1. Workshops and Seminars

As part of the project, a series of seven workshops/seminars were successfully organized to foster knowledge exchange and capacity building. These workshops aimed to establish a robust citizen science alliance among researchers, stakeholders in water use, and, most importantly, the citizens themselves. Each workshop targeted specific audiences, including government water managers from various departments, officials from relevant organizations, academic institutions, geologists, local NGOs focusing on water issues, and representatives from the Udaipur Chamber of Commerce. The workshops covered a wide range of topics, including water resource management, sustainable practices, and the analysis of water resources in terms of quality and quantity. The list of activities is listed in Table 1. Few glimpses and pictures of the events are shared here in Fig. 2.

**Table 1 List of activities under DANIDA funded project on Ahar River Basin, Udaipur**

Sr No	Name of workshop	Number of participants	Participants organisation/country	Date
1	Seminar on <i>Future Wastewater treatment plant with resource utilization as focus</i>	10	AahrusVand, Denmark; Rajasthan n State pollution control board, Hindustan Zink, Students VBPC	29/03/2022
2	Workshop for <i>Building Citizen Science Alliance</i>	12	School teachers and Researchers from Udaipur city and nearby	26/04/2022





3	<i>Stockholder's meet – Citizen Science network (Water managers and water consumers)</i>	41	Govt. departments managing water, NGO's, Citizen science network schools /colleges	05/05/2022
4	<i>One day workshop on Water Quality testing and hands on training</i>	40	Citizen Science network institutes, Students with respective teachers of Udaipur and nearby	6/08/2022
5	<i>Workshop on Dialogue on Water and Exhibition</i>	23	Water related government organisations from each state of India and NGO's researchers	27/08/2022
6	<i>Round table talk about water management with stack holders of Udaipur</i>	33	Delhi, Denmark and Udaipur; people from different government and non- government organisations, embassy of Denmark	19/04/2023
7	<i>Citizens role in IWRM of Udaipur</i>	30	Delhi, Denmark and Udaipur. Selected citizen science network members , teachers, institute heads etc.	20/04/2023
8	<i>Regular visits to 17 citizen science network institutes for training and data collection</i>	17*10	Upper Berach basin (Ahar River). Sub catchments	Alternate day one or two institutes

## Citizen Engagement Activities

### 2.1. Training Programs

Citizen training programs were conducted to equip students from selected schools and institutions for water sampling, water quality testing (Fig. 2), rainfall measurements, groundwater level measurements, and ecological health assessment. The institutions listed in Table 2 actively participated in these programs, contributing to data collection and analysis. In these institutes about 360 citizens were trained by Vidya Bhawan Polytechnic College and Development Alternatives. About 39 students are very active and keen to collect above mentioned hydrological data out of total students trained for the same.





Figure 2 Hands on practice and training session for water quality testing

**Table 2: Activity summary of the institutions involved in citizen science programme**

S. No.	Institution	Course/Class	No. of citizens trained	No. of citizens providing CS data	No. of equipments disbursed*
1	GSSS, Madar	High school	20	3	1, 2, 3
2	GSSS, Thoor	Middle school	30	3	1, 2, 3
3	GSSS, Lakhawali	Middle school	30	4	1, 2, 3
4	GSSS, Bhoiyon ki Pacholi	Middle school	25	2	2, 3
5	GSSS, Sisarma	Middle school	35	3	1, 2, 3
6	GSSS, Badi	Middle school	10	1	2, 3
7	GSSS, Khemli	High school	20	2	1, 2, 3
8	GSSS, Sukher	Middle school	30	3	2, 3
9	Vidya Niketan School, Hiran Magri Sector-4	Middle school	25		2, 3
10	Alok School, Sec 11, Near Govardhan Sagar	Middle school	10	3	1, 2, 3
11	Vidya Niketan School, Vallabh Nagar	Middle school	20	1	1, 2, 3
12	Vidya Bhawan Public School, Dewali	High school	15	2	1, 2, 3
13	Abhinav School, Rakampura	Middle school	10	3	1, 2, 3

14	Aravali Institute of Technology College, Umarda	B. Tech (3rd year)	25	2	2, 3
15	Geetanjali Institute of Technical Studies	B. Tech (Civil Engg. III year)	15	3	2, 3
16	Vidya Bhawan Polytechnic College, Badgaon	Diploma (Civil Engg. 2nd year)	30	4	1, 2, 3
17	Stanward School, University Road	Middle school	10		2, 3

\*1: Rain gauge, 2: Jal TARA water quality testing kit, 3: Measuring tape \*Government Senior Secondary School (GSSS)

## 2.2 Citizen Science Network

A citizen science network was established with a total of 17 participating institutions situated in the micro catchments of the Ahar River (Fig. 1). These institutions actively contributed to data collection efforts, including rainfall measurement (Fig. 3) water quality monitoring and ecological assessments. However, some micro catchments located in the Aravali hilly region were unable to participate fully. The lakes and water bodies covered under the citizen science monitoring program included Badi Lake, Chota Madar Lake, Bada Madar Lake, Pichola, Fateh Sagar, Lakhawali talab, Govershan Sagar, Sisarama River, Ahar River, Udai Sagar, and Vallabh Nagar Dam.

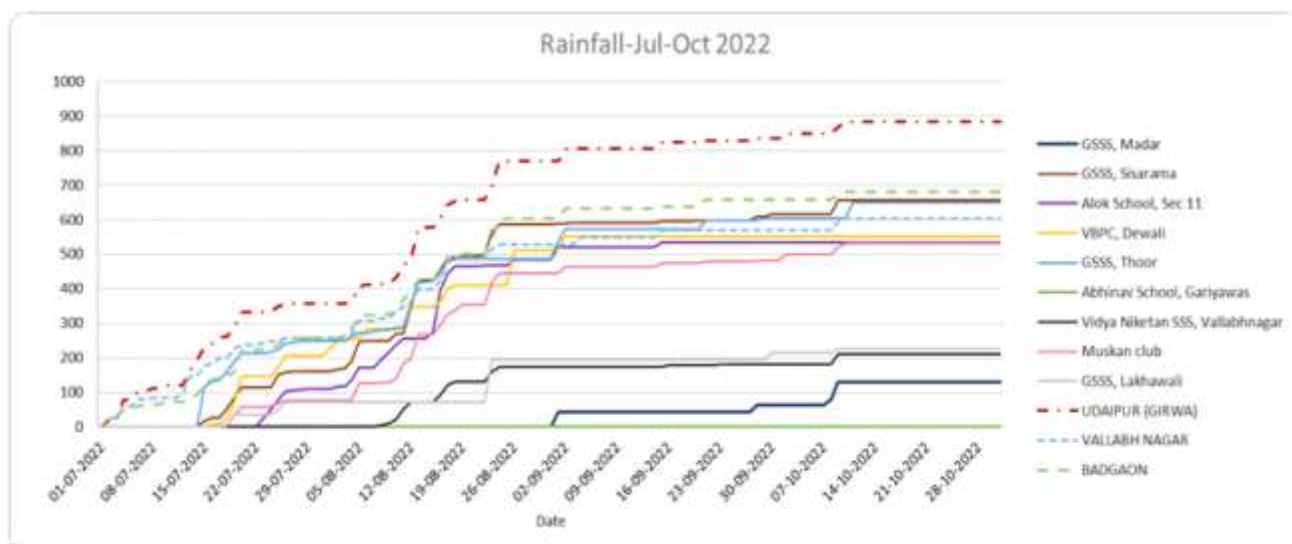


Figure 3 Cumulative Rainfall data plotted against days, which was collected by citizen science network and also dotted line data from government record plotted in same scale to showcase the robustness of citizen science data

## 2.3 Mywell app

Under the MARVI project, a groundbreaking data collection app called Mywell was developed and utilized in the DANIDA project as well to collect and share valuable data worldwide. Mywell revolutionized the process of data collection by providing a user-friendly platform that enabled efficient and widespread data sharing, contributing to the advancement of water resource management on a global scale.



## 1. Denmark Research Partnership

As part of the project, a research partnership with Denmark was established. Dr. Anil Mehta, the principal of Vidya Bhawan Polytechnic and the lead researcher of the project, visited AHARUS city (See Fig. 5) to learn about waste water management and river rejuvenation practices. Additionally, Dr. Yogita, a post-doctoral researcher of the project, visited the University of Copenhagen as a visiting researcher for three weeks along with the two more researchers from each of the project partners i.e. DHI and DA.



Figure 5 The delegation from India visited Aarhus Vand including Lead researcher

## Media Coverage

The project gathered significant media attention through newspaper articles, a spotlight on the crucial aspects of lake-river rejuvenation and the vital role citizens play in water management. These articles served as a powerful tool to raise awareness and inform the citizens' about the project's endeavors. The articles were also published in local language to reach out to most of the audience. By highlighting the efforts to restore and revitalize lakes and rivers, as well as the active involvement of citizens in water management, the media coverage played a pivotal role in emphasizing the importance of community participation in sustainable water assessment, conservation and management. Through these articles, the project successfully showcased the positive impact citizens can make in preserving and managing water resources for a greener and more resilient future.

## Conclusion

The Integrated Water Resources Assessment of Upper Berach Basin (Ahar River), Udaipur District, successfully engaging citizens in generating hydrological and ecological data while promoting awareness among the community. The training programs, workshops, field visits, and media coverage played a crucial role in achieving the project's objectives. The citizen science



network established through the project demonstrated active participation from various institutions, contributing to data collection efforts. The research partnership with Denmark provided valuable insights and cross-learning opportunities. The project's activities have laid the groundwork for effective water resource management and sustainable practices in the Upper Berach Basin, ensuring the preservation of water resources for future generations.

## **Looking Ahead**

In the upcoming year, we are embarking on an ambitious sampling campaign, covering 19 key locations at the inlet and outlet of significant water bodies within the Ahar River basin during pre-monsoon and post monsoon. The same level of dedication and effort will be invested to strengthen the previously established citizen science network by focusing on the generation of a comprehensive time series of data. This endeavor aims to enhance the existing database, enabling a more robust understanding of the hydrological and ecological dynamics in the Ahar River basin. By expanding and refining the data collection efforts, we can empower the citizen science network to make informed decisions and contribute to sustainable water management practices in the region.

## **Mission**

As an outcome of the project, the project lead is considering the establishment of a dedicated Water Centre. This envisioned Water Centre aims to serve as a lasting legacy, stemming from the rigorous citizen science networking efforts undertaken during the project.

The Water Centre would be a hub for continued engagement and collaboration, ensuring the ongoing involvement of citizens in monitoring and managing water resources.

By providing a platform for knowledge sharing, capacity building, and community-driven initiatives, the Water Centre would play a pivotal role in sustaining the momentum of the project's achievements and fostering a culture of responsible water management for years to come.

## **Collaborating Partners:**

- ◆ University of Copenhagen, Denmark – Project Lead
- ◆ Geological Survey of Denmark and Greenland, Denmark (GEUS)
- ◆ Vidya Bhawan Polytechnic College, India (VBPC)
- ◆ DHI (India) Water and Environment Pvt. Ltd. (DHI)
- ◆ Development Alternatives, India (DA)



## ANNUAL REPORT 2022-23

### 1. Introduction

Vidya Bhawan Polytechnic College (Estd.1956) is a leading Polytechnic offering three year engineering diploma in Civil, Electrical, Electronics, Computer Science and Information Technology; a year and half Post diploma in Polymer Science and Rubber Technology; affiliated to All India Council for Technical Education, New Delhi and approved by Board of Technical Education, Rajasthan. The institute runs a skill development course- Mechatronics- in collaboration with BOSCH, Saraswati Singhal Foundation and Rajasthan ILD Skills University. The institution imparts experiential learning and skill based technical education with the aim to make students skilled, employable and industry-ready.

### 2. Admissions

VBPC had highest admission for diploma courses in Rajasthan. 214 students took admission in first and second year with strength of 464.

### 3. Academic Activities

- ♦ Seminars and Expert Lectures provide practical knowledge, industry insights, networking opportunities also serve as a bridge between academia and industry. Considering its importance Polytechnic organized seminars on Career Opportunities in Polymer Science & Rubber Technology, AutoCAD (2D and 3D), Software Development-Startups, DevOps Technology, API with Flask Implementation, Solar Technology and its Applications at Home and Industries, Importance of Programming in Software Field, and Lateral Thinking & Grooming were organized.
- ♦ Student's Workplace Visits: Workplace visits offer a learning experience that goes beyond the classroom, providing opportunities for career exploration. This year, the students visited various plants viz. Archie Harmony, Pullan; Government Water Treatment Plant at Nandeshwar; Secure Meter for Sewer Treatment Plant; Birla Cement Company- Chittorgarh; JK Tyres Industries Ltd.-Rajsamand, Polymer Processor, Advent Polymer, students also participated in the International Rubber Conference at Bengaluru and visited JSS College, Isha Foundation, and Dr. D. Banerjee Center of Excellence for Polymer Science and Rubber Technology at Mysore.
- ♦ Projects: Projects play vital role in education by offering practical learning experience. Students worked on various topics like Detailed Planning of Row Housing, Dual-Axis Solar Tracker System, Smart E-Bicycle, Wireless Hand Gesture-Controlled Smart Wheelchair, Smart Helmet using ARDUINO with GPS & GSM, Smart Soil Monitoring System, Nord MCU-based Smart Notice Board Control using Wi-Fi and Bluetooth, and Student Management System using React JavaScript.

**4. Co-Curricular Activities** promote holistic development, skill enhancement and personal growth. In 2022-23, several activities were conducted:

**Workshop on Enhancing Writing Skills and Book Launch** was conducted with the aim to improve students' writing skills and emphasize its significance in engineering. Two books were





also launched: "Build Your Muscle" by Devesh and "Applied Chemistry" by Polytechnic faculty Dr. Mahendra Pal and Dr. Vikram.

**Workshop on Resume Preparation:** The Polytechnic and Workmob initiated a program in March to help final year students build their personal brand and connect with potential employers, including resume preparation sessions and video resume recording.

**Participation in discourse of Aditya L-1 Mission-** The Udaipur Solar observatory and Indian Society for Technical Education and Indian Institution of Engineers organized a dialogue on the Aditya L-1 mission in the month of April. Special guests included Former Secretary, Department of Space (Govt. of India), Chairman, PRL Council of Management, Padma Shree AS Kiran Kumar and Distinguished Professor and J. C. Bose National Fellow Academician, International Academy of Astronautics, Chairman, INSA-International Science Council Committee for COSPAR, URSI, SCOSTEP and Director, Physical Research Laboratory, Dept. of Space, Govt. of India Professor Anil Bhardwaj, who discussed the mission's importance and the role of the Udaipur Solar Observatory.

**Seminar on Prevention of Sexual Harassment at Workplace** was held to educate female students about workplace harassment, abusive conduct, discrimination and measures to prevent.

**Series of Lectures by VB Wellness Centre** on social behavior, cyber security, and mental health were conducted to improve social skills and mental health.

**Seminar on Self Defense** was organized to enhance self-confidence, improve awareness of personal safety, and develop social skills. Black Belt Sanju Singh, Director-Suraksha Martial Arts, demonstrated techniques and shared tips on self-defense. It was jointly conducted by Rotary Vasudha, Mewar Hi-Tech Engineering, and Technocast Pvt Ltd.

## 5. Special Efforts to Inculcate Vidya Bhawan Values

To develop open minded outlook towards life, healthy sense of citizenship and to promote values of Vidya Bhawan special efforts were made:

- ♦ The Polytechnic has started **Saturday Assembly** which is one of the most important milestones for Polytechnic.
- ♦ **First Name First Initiative** started in 2015 under which only the first name is used, the surnames of students and staff have been struck off from the attendance registers name plates respectively. By 2017, the initiative was completely applied in the daily management of college affairs. Now, everyone is finding the initiative a pleasant deviation from conventionalism.
- ♦ **Gandhi-Shastri Jayanti** was celebrated to promote the admirable qualities of these noble figures. The event was graced by Vice President (VB Society). An interactive session, poster-making competition on "No Honking" and Shramdaan were organized.
- ♦ To cultivate sensitivity towards environment and its conservation students attended an interactive session on **Sustainable Living-Caring for Climate** in September. The session was led by Ms. Arya, an accomplished Author, Illustrator, Speaker, and Advocate for Heritage and Environment Conservation.
- ♦ **Discussion on Sustainability Education** was held in April. The special delegates were Jen Dolin, Director Sustainability Education and partnership, Western Sydney University, Dr.

Sussain, Advisor Sustainability Education, Western Sydney University and Venkatesh, Department of Forest (Govt. of Rajasthan). The delegates were enlightened about the core objectives of Vidya Bhawan in education for sustainability. They appreciated the thoughts and values; also they expressed desire to associate with the organization.

- ♦ **A Non- Formal Discourse of Staff** at Amarakhji was organized in which the CEO of VB Society interacted on the mental well-being of the staff members.
- ♦ An Interactive session on **Entrepreneurship Lessons from Bhagwat Geeta** was conducted in collaboration with the Institute of Engineers, Indian Society for Technical Education, and National Service Scheme. The keyperson, Shri Hari Kripa from Eskcon, focused on management skills, leadership skills, and entrepreneurship, highlighting principles from the Bhagwad Gita that entrepreneurs can incorporate.
- ♦ An expert lecture on **Vishva Bandhutva Diwas** was held to mark Vishva Bandhutva Diwas. Saint Deepak from Ram Krishna Mission shared his thoughts on the rich heritage of Indian culture and values.

**6. Seminars and Workshops on Preventive Health Care:** To make the students aware of importance of good health and healthy lifestyle seminars and lectures on **Preventive Health Care with Ayurveda; Awareness Seminar on Eye Care and Donation; Dental Health Education & Check-up Camp; and Preventive Health Care on Piles** were conducted.

**7. Cultural Activities:** Cultural activities make the students social, practical, confident, also develops a well rounded personality and improves their academic performance. Therefore, following cultural activities were organized:

- ♦ In October, the Polytechnic organized **Mel Jol Mela** showcasing cultural performances and stalls offering games and refreshments. The purpose of this fair was to foster students' social and entrepreneurial skills. It garnered attendance from parents and esteemed Chief Guests, including VB Society executives.
- ♦ The **Annual Day and Farewell** of final year students were conducted in May with the theme "LiFE: Lifestyle for Environment". The final year students were given seeds of three types of plants with the appeal to grow and nurture them. Cultural programs, rangoli, mehndi and salad decoration competition were held with this theme. The chief guest of the function was Mr. Sandeep Alumni batch 1981 Retd. Joint Director, Military Engineering Services; reputed VB Polytechnic Alumni and executives of VB Society graced the occasion as special guests. Environmental activist Mrs. Sadhna from Amrita Devi Paryavaran Nagrik Sansthan demonstrated eco-brick making with single-use plastic.
- ♦ **Bhashai Sangoshthi:** On the eve of Hindi Diwas, a 'Sahityik Gosthi' was organized, and also in the season of spring a 'Sahityik Sanghosti: Basantotsav' was celebrated, which was graced by the literary personalities of national repute.

**8. Alumni Association:** The Polytechnic has an engaged Alumni Association which keeps organizing activities through which they connect with their mother institution. This year's activities include:

- ♦ **Engineer's Day:** To mark the birth day of Sir Visvesvaraya, Engineer's Day was celebrated on 15th Sept in collaboration with Institution of Engineers (India) and Indian Society for



Technical Education (ISTE), Student Chapter. A Poster and an Essay competition were held on the topic 'Smart Engineering for Clean, Green and Prosperous Udaipur'.

- ♦ **Foundation Day Celebration:** This year the batches of 1973 and 1998 who completed their 50 and 25 years of diploma were felicitated. 50 meritorious students were awarded for their achievements.
- ♦ **Lecture Room Renovation:** Alumni of Batch 1983 have undertaken the lead to renovate and transform a lecture room into a well equipped class room.

**9. Results:** Total of 393 students appeared in examination in the year 2021-22, and 41% passed. Although the result is not satisfactory, two students secured merit position in board. In final year 114 students appeared the exam and 36% students received Diploma.

**10. Placement:** This year 50 students got selected with the efforts of Training and Placement Cell through campus placement drives by various companies viz. Secure Meters Pvt. Ltd., YMPL, CeatTyres, Miraj, Echon and Sagar Rubber.

**11. Scholarships:** Total 76 students from difficult financial background were offered scholarships, in which 27 were provided by VB Society; other benefactors include Shiksha Shakti Foundation, Rajasthan Samaj Kalyan Vibhag, and All India Council for Technical Education, New Delhi.

**12. National Service Scheme (NSS):** The students are encouraged to participate in the National Service Scheme (NSS). NSS organized activities, including an awareness seminar on eye care and donation, a dental check-up and awareness camp, a lecture and poster competition on reducing noise pollution, a plantation drive and Shramdan on Gandhi Shastri-Jayanti, a nature camp at Prakriti Sadhna Kendra, and a survey on employment and literacy at Bhilon ka Bedla on World Water Day.

**13. Shiksha Sambal Program:** A 20-day vocational course on house wiring and home appliance repair in collaboration with VB Society, Vedanta, and Hindustan Zinc, from December 20, 2022, to January 9, 2023 was conducted. The Polytechnic faculty trained girls from class 11 of government schools in Sakroda, Gudli, Dabok, and Dariba. At the end of training the trainees were capable of performing wiring and basic electrical work, and repairing domestic appliances.

**14. New Road: Mohan Path-** With the objective to strengthen the identity, improve convenience for students, staff, and visitors, vehicle free VBRI campus and create a vibrant academic atmosphere, a new road and entry gate was constructed. It was inaugurated on 26th January by the President-VB Society. Also, carpeting of the internal road improved the inter department connectivity. It is an exemplary model where total expenditure is shared through donations and contributions from well-wishers and alumni. The road reminisces the present and future generations to follow the path of the founder of Vidya Bhawan, Sh. Mohan S. Mehta.

#### **15. Other Important Activities:**

**Sports:** The Polytechnic encourages students to participate in games and sports to enhance their life skills and holistic development. Sports week was conducted in November where games like volleyball, kabbadi, cricket, badminton, carom and athletic events were organized.

**Interaction with Parents-** Considering that joint efforts and understanding between parents and teachers is important for the progress of student, an induction program for new entrants and parents was conducted. Also, two Parent-Teacher meetings were organized providing





platform to discuss strengths and areas of improvements.

**Education Expo 2023:** The Polytechnic participated in the "Education Expo 2023" at R.K. Mall in April that provided platform to connect students and parents with the right and best institutions to select their future career paths. The Polytechnic interacted with approximately 1200 students and informed about the courses at Polytechnic.

**16. Activities of Saraswati Mechatronics Centre (SMC):** With support of Saraswati Singhal Foundation, SMC was founded which provides job oriented courses. This year total 94 students were trained in Mechatronics, Production and Automation. The trainees were from JK ITI; Vishvesariya ITI; Geetanjali Institute of Technical Studies; and VB Polytechnic. A 2-day certificate course on CNC operator was also conducted for 4 students.

To introduce courses offered by Ministry of Micro, Small & Medium Enterprises, Mr. Neeraj, Sr. Engineer from MSME Training Center, Bhiwadi and Mr. Naveen Kumar from Sunlight Consultancy visited SMC. The visits benefited SMC in designing more courses as per the market requirement. Principal and HOD-Electrical Department of SS College, Udaipur also visited the centre to observe the scope of trainings.

**17. Collaboration with Danish International Development Agency (DANIDA) Integrated Water Resources Management (IWRM) Project:**

The project achieved another milestone this year. The unique data support system developed under this project has been adapted in a few areas of the world. The hydrological model studied the flow and quality of water. The citizen science activities conducted are as follows: Rainfall Measurement, Water Quality Monitoring and measurement, Well Monitoring, Ecological Health Monitoring etc. More than 500 citizens from 18 selected institutions were trained to measure & monitor water quality of lakes, groundwater and rainfall of Ayad river catchment. Three meetings were organized at every institute lead by project team members. Thirty testing sessions were organized. Each institution was visited twice in a month for training sessions. A national level workshop was organized in August, 2022 with several organizations working in water management. In January 2023, a workshop on water quality monitoring and measurements was organized. Two workshops in the month of April were organized.

**18. Challenges of Polytechnic:** The admissions are getting affected as till 2002 there were around 15 Government and 2 Private Polytechnics, but now the Government policy to open new Government, Private and PPP Polytechnics has resulted in 125 BTER affiliated Polytechnics and many Private Universities by 2022. There are lesser admissions from other districts so the utilization of hostel has also reduced. We are becoming more vernacular; earlier we were having students from pan Rajasthan and even from other states. Government colleges offer lesser fee (12.5K as compared to 36.7K) and even free-ships also poses challenges. The Polytechnic faces a significant challenge that a large number of students come from a weak academic background that leads the faculty to struggle to bring them at par as well as complete the syllabus in a stipulated time.



## LIST OF FINAL YEAR STUDENTS

### ELECTRONICS ENGINEERING

#### BHARAT SINGH CHUNDAWAT

Bahadur Singh  
Devali Nimach Kheda Udaipur  
Email:  
bharatsinghchundawat7878@gmail.com  
Mobile : 7878410517

#### KARAN SAWARIYA

Roshan Ji Sawariya  
Sec. 14, D - Block, Udaipur  
Email: karansawariya759@gmail.com  
Mobile: 6376521892

#### LAKSHIT SINGH

Suresh Singh  
1543 MTN, Neemach Mata,  
Udaipur  
Email: lakshitsinghsolanki67@gmail.com  
Mobile: 8949395311

#### VIKAS NAGDA

Vidhyadhar Nagda  
Sisarma Tehsil Girwa Udaipur  
Email: vikasnagda73@gmail.com  
Mobile: 7340338691

#### DEEPAK YADAV

Ramu Yadav  
Ramnagar, Bhuwana, Bypass,  
Udaipur  
Email: thedy0908@gmail.com  
Mobile: 9166953269

#### KAMLESH CHATURWEDI

Himmat Ram  
G21 Housing Board Savina I  
Udaipur  
Email:  
kamlesh2001kunal@gmail.com  
Mobile: 7791810407

#### ROHIT SUTHAR

Naresh Suthar  
Badgaon, Udaipur  
Email:  
rohitsuthar399@gmail.com  
Mobile: 9495264999

#### SHUBHAM PRAJAPAT

Kamla Sankar  
Mal Ki Tus Village Udaipur  
Email:  
subhamvrajapat6367@gmail.com  
Mobile: 6367880221

### INFORMATION TECHNOLOGY

#### YASH SINGH ATWADIA

Rajesh Singh atwadia  
9, Samta Nagar , Near Lake City  
Tennis Academy Udaipur  
Email:  
yashsinghatwadia@gmail.com  
Mobile: 9461153140

#### ROMMY SEN

Rajesh Sen  
Zawar Mines, Ram Nagar !089  
Udaipur  
Email: senrommy@gmail.com  
Mobile: 7877668062

#### AISHWARY JAIN

Mukesh Jain  
27, Teej ka chok, delhi gate  
Udaipur  
Email:  
jainaishwary50@gmail.com  
Mobile: 7878553952

#### GOPAL PALIWAL

Kailash Chandra Paliwal  
29, Rajendra Nagar Near New  
RTO office Udaipur  
Email:  
abhishekpaliwal612@gmail.com  
Mobile: 8949672095

#### GAURISH KUMAWAT

Panna Lal Kumawat  
5 Raj Ratan Navratna complex  
bhuwana Udaipur  
Email:  
gaurish.kumawat123@gmail.com  
Mobile: 8078664707

#### JAYANT SAINI

Gopal Mali  
Old bhuvana Udaipur  
Email: jayantsainij@gmail.com  
Mobile: 9928527794

#### HARSHIL PRAJAPATI

Shailesh Prajapati  
Sec 5, hiran mangri , Udai park  
colony Udaipur  
Email:  
harshilprajapati968@gmail.com  
Mobile: 8949852816

### COMPUTER SCIENCE

#### AAQIB DM

69, OTC ambamata Udaipur  
Email: aaqibdm7@gmail.com  
Mobile: 7878181375

#### BHAVY HILORIA

Titardi, Rkpuram, 6C Udaipur  
Email: bhavy5134@gmail.com  
Mobile: 9672645145

#### BUSHRA PARVEEN

Hathipole Udaipur  
Email:  
bushrahim1991@gmail.com  
Mobile: 9462071883

#### DEEPAK

Sadri Pali  
Email:  
deepaksuthar2906@gmail.com  
Mobile: 8690054729

#### DHARMESH

Ordi-a, dabok airport Udaipur  
Email:  
dharmeshpaliwal1882@gmail.com  
Mobile: 9509921139

#### DILIP SINGH

Near gayatri school, sapetia  
Udaipur  
Email:  
dilipsinghrarhod6@gmail.com  
Mobile: 9521313587

#### GAURAV AMETA

60,old RTO, UIT colony, pratap  
nagar Udaipur  
Email:  
gauravameta6168@gmail.com  
Mobile: 9024543076



# NAVDRISHTI 2022-23

**GAURAV PATEL**

Kumharo ka bhatta Udaipur  
Email: gaurav07758@gmail.com  
Mobile: 8326483155

**HIMANSHU VAISHNAV**

Bedla Road, Fatehpura Udaipur  
Email: himanshuvaishnav853@gmail.com

**JAYANT TAILOR**

Vaishali nagar, Ajmer  
Email: jayanttailor031@gmail.com  
Mobile: 7737799346

**KARTIK VERMA**

Bedla Udaipur  
Email: vermakartik489@gmail.com  
Mobile: 8239253700

**KHAROL YASH KUMAR**

Laxmipura, arned, dungla  
Chittorgarh  
Email: yashkhariwal2234@gmail.com  
Mobile: 7357946562

**KUNAL RALOTI**

Adarsh nagar, gariyawas Udaipur  
Email: kunalraloti7070@gmail.com  
Mobile: 7665302543

**MANISH VYAS**

Savina Udaipur  
Email: manishvyas210@gmail.com  
Mobile: 9587170747

**MAYANK SHARMA**

North ayad Udaipur  
Email: ms7868760@gmail.com  
Mobile: 9414471946

**ISHIKA SEN**

Mobile:  
Kheradi wada Udaipur  
Email: iskhikiasen960@gmail.com  
Mobile: 9602423803

**NEEV KUMAWAT**

Chandpole bahar Udaipur  
Email: neevkumawat6@gmail.com  
Mobile: 9783768891

**RAKSHAYRAJ SINGH  
RANAWAT**

Hamirgarh Bhilwara  
Email: ranawatrakshayraj@gmail.com  
Mobile: 7023235315

**SAMEER**

253, Faruk Azam Colony  
Mullatla Udaipur  
Email: sameermohammed0726@gmail.com  
Mobile: 7728821175

**SUDARSHAN LOHAR**

University road Udaipur  
Email: sudarshan178577@gmail.com  
Mobile: 9664421021

**YASHWARDHAN**

Chandpole bazar Jaipur  
Email: yashwardhan19jan@gmail.com  
Mobile: 6375163064

**RATAN KANAWAT**

Hawa magri, sukher Udaipur  
Email: ratankanawat9636@gmail.com  
Mobile: 9783886955

**RISHI SINGH PARIHAR**

Meera nagar, bhuwana Udaipur  
Email: rsparihar876@gmail.com  
Mobile: 9166475220

**SADHYA DASHORA**

Gangrar Chittorgarh  
Email: sadhyadashor023@gmail.com  
Mobile: 9828565438

**TUSHAL PRAJAPAT**

chikalwas Udaipur  
Email: Tushalprajapat2003@gmail.com  
Mobile: 8955629327

**VAIBHAV MALI**

Badgaon Udaipur  
Email: vaibhavmali537@gmail.com  
Mobile: 6350330324

**VISHAL PATEL**

Surpur Banswara  
Email: vpatel77038@gmail.com  
Mobile: 7073287031

**CHANDRA PRAKASH SUTHAR**

Kailash Chandra Suthar  
725, D Swami nagar 100 ft. rd. Udr  
Email: chandraprakashs526@gmail.com  
Mobile: 9509930705

## CIVIL ENGINEERING

**AAKASH SAGAR**

Ramsevak Sagar  
House no. 1/380 Meera Nagar B-Block Bhuban Udaipur  
Email: aakashsagar987@gmail.com  
Mobile: 9713078529

**BHARAT KUMAR LOHAR**

Bhagwati Lal Badgaon, Majhera  
Rajasamand  
Email: bharatlohar402@gmail.com  
Mobile: 7742428654

**CHINMAY DODIA**

S.N. Dodia  
House no. 118 Sector-9, c block  
Udaipur  
Email: chinmaydodia@gmail.com  
Mobile: 7357974178

**DEVENDRA SOLANKI**

Narendra Kumar Teli  
House no.- 192b Aambawadi  
Rampura Udaipur  
Email: devendrasolanki6367@gmail.com  
Mobile: 6367489147

**DIGRAJ SINGH RATHORE**

Vijay Singh Rathore  
71, Shree Nath nagar behind VIP  
Colony road no. 4 hiran mangri  
Sec-9 Savina Rural Udaipur  
Email: singhdigraj555@gmail.com  
Mobile: 6376541589

**HARISH PATEL**

Prakash Patel  
Kharbariya, Post Matoon, Udaipur  
Email: hp800977@gmail.com  
Mobile: 6350265136

**HIMMAT SINGH CHADANA**

LT. Pratap Singh Chadana  
Pratap niwas, opp. treasure town,  
sarkari tubewell wali gali,  
Manhorpura, Badgaon Udaipur  
Email: himmat.p.singh3976@gmail.com  
Mobile: 6378239803





# NAVDRISHTI 2022-23

**HITESH SUTHAR**

Kishan Suthar  
Rawaliya kalan, Gogunda  
Udaipur  
Email: hiteshsuthar739@gmail.com  
Mobile: 8290247457

**KARAN SUTHAR**

Prem Shankar Suthar  
Nr. Tiger Hills, Pladi Katra, Udr  
Email: ksuthar7068@gmail.com  
Mobile: 7742723700

**MAHIPAL SINGH DEORA**

Fateh Singh Deora  
Merta Village Dabok choraya  
Udaipur Rajasthan 313022  
Email: mahipalsadabok988@gmail.com  
Mobile: 9887357047

**MAYANK NAGDA**

Ramesh Chandra Nagda  
Kala Ji Bauaji Ke Pass, Bhatewar  
Email: mayanknaagda65@gmail.com  
Mobile: 8529479324

**MIHIR DATIYA**

Rajesh Datiya  
Sec-14, Hiran Magri, 75/A H-Block Udaipur  
Email: mihirdatiya15@gmail.com  
Mobile: 7877147412

**MOHIT VERMA**

Pawan Kumar Verma  
Behind Govt. Hospital Indra Colony Salumber Udaipur  
Email: mohitvermatailor876@gmail.com  
Mobile: 8769833364

**NAMAN SHRIMALI**

Lt. Dilip Shrimali 3/192  
Goverdhan Villas Sector-14 Udr.  
E: namanshrimali17@gmail.com  
Mobile: 7742182104

**NARENDRA NATH SISODIYA**

Harish Nath Ji  
Neemach Kheda Daurga Colony Drwali Udaipur  
E: narendrasisodiya385@gmail.com  
Mobile: 9636415523

**NISHIT GURJAR**

Ramesh Gurjar  
Village Gorella, Post Sisarma, Tehsil. Girwa Udaipur  
E: nishitgurjar266@gmail.com  
Mobile: 8302820902

**RAJENDRA SINGH DEVDA**

Pahad Singh  
Village mervaniya post vards tesil badgaon udaipur  
E: rajendrasingh02102002@gmail.com  
Mobile: 6367630246

**SHIVANSH PUROHIT**

Shyam Purohit  
Purohit Ji Ka Khda, Kotri Bhiwara ( 311603 )  
E: shivanshpureek8@gmail.com  
Mobile: 9680747542

**TUSHAR KUMAWAT**

Natwar Kumawat  
05, Tulsi Nagar, Manoharpura, Badgaon ( Rwall ) Udaipur  
E: kumawattushar222@gmail.com  
Mobile: 9509903201

**TUSHAR SINGH KHARWAR**

Nahor Singh  
59, Tulsi Nagar, Manoharpura, Bargon Udaipur  
Email: tusharajput451@gmail.com  
Mobile: 6376826329

**UMESH LOHAR**

Shanti Lal Lohar  
52 B.G. Nagar Bedla Udaipur  
Email: loharlokeskesh296@gmail.com  
Mobile: 8503812064

**VATSAL SHARMA**

Dushyant Sharma  
Nathdwara, Rajsamand, Rajasthan  
Email: vs6877599@gmail.com  
Mobile: 9057509118

**YASH CHOUBISA**

Inder Lal Choubisa  
3 Sajjan Vihar NH8 Near Celebration Mall Opposite Pir Bavji Bhuwana Udaipur  
Email: uyash4026@gmail.com  
Mobile: 9799738250

**YASHWANT GAMETI**

Mukesh Gameti  
Goverdhan Villas Sector-14 Lake Garden Jameswar Deyri ke pass Udaipur  
Email: yashwantgameti0@gmail.com  
Mobile: 8005835899

**DHARMESH SUTHAR**

Banshi Lal Suthar  
Sutharo Ka Mohalla, Village-Poothol, Post-Mundol, Rajsamand  
Email: dharmesh.92dj@gmail.com  
Mobile: 8824748692

**KUSH JAIN**

Kaushal Jain  
Jain Mohalla, Tehsil- Galiyakot Distt- Dungarpur, Rajasthan Pin 314035  
Email: khush26122003@gmail.com  
Mobile: 7878869853

**PRATIBHA PATEL**

Narendra Patel  
Palodra, Sarada, Udaipur Rajasthan  
Email: pratibhah9413@gmail.com  
Mobile: 8824099482

## ELECTRICAL ENGINEERING

**HARSH KUMAWAT**

Rajesh Verma  
05, Bohara ganesh colony, Dhoolkot Chouraha Udaipur  
Email: kumawatharsh1711@gmail.com  
Mobile: 9829243967

**LOVESH SINGH GEHLOT**

Om prakash Gehlot  
03, Dhan kuto ki gali, bhattiyani chouthta Udaipur  
Email: loveshsingh62@gmail.com  
Mobile: 9571879364

**HEMANT PRAJAPAT**

Om Prakash Prajapat  
Near bus stand Chikalwas, Udr  
E: prajapathemant999@gmail.com  
Mobile: 7734939566



# NAVDRISHTI 2022-23

**VISHVPAL SINGH  
CHUNDAWAT**

Bhagwat Singh Chundawat  
Dewali Nandwel Udaipur  
Email: vishvpalsinghchundawat@gmail.com  
Mobile: 9680593294

**KAMLESH GAMETI**

Jagdish Gameti  
Kesar bagh road, loyara Udaipur  
Email: solankikam595@gmail.com  
Mobile: 8112219202

**MOHAMMED YASEEN**

Mohammed Rafiq  
12, Chokhla bazar, bhopal wadi Udaipur  
E: mohammedyaseen4286@gmail.com  
Mobile: 7877647933

**PAVAN KUMAR YOGI**

Kailash Yogi  
Neenach kheda, dewali Udaipur  
Email: pavanggg2000@gmail.com  
Mobile: 8000705889

**BHAVESH UPADHYAY**

Tarun Upadhyay  
Lb 41 Chitrakut Nagar Bhuwana Udaipur  
Email: bhaveshupadhyay132@gmail.com  
Mobile: 7568729437

**PANKAJ DANGI**

Nathulal Dangi Udaipur  
E: pankajdangi1929@gmail.com  
Mobile: 7793071779

**KUNAL SINGH PARIHAR**

Komal Singh Parihar  
155-156 Gordhanvillas housing board colony Udaipur  
E: Kunalsinghparihar2004@gmail.com  
Mobile: 7023772720

**ROHIT SAHU**

Hemendra Sahu  
17 sindhi sarkar ki haveli kheradiwada, near shreenath temple Udaipur  
Email: rohitsahu821p@gmail.com  
Mobile: 7877911951

**HIYA SHARMA**

Vineet Sharma  
Hiran Magri Udaipur  
Email: hiyasharma004@gmail.com  
Mobile: 8107269309

**VIVEK KUMAR KAHAR**

Poonam Chandra Kahar  
22,44 khempura bhoiwada Udaipur  
Email: vivekbhoi123456@gmail.com  
Mobile: 7597208245

**KHUSHBU TANK**

Ghanshyam Tank Pratap nagar Udaipur  
Email: takkhushi426@gmail.com  
Mobile: 9602105017

**PANKAJ SUTHAR**

Bansilal Suthar  
Changedi, bichadi, udaipur (Raj)  
Email: pankajsuthar072@gmail.com  
Mobile: 9694104522

**GANPAT DANGI**

Daulat Ram Dangi  
kayo ka nohra sobhagpura Udaipur  
Email: dangiganpat526@gmail.com  
Mobile: 9024141949

**MAYUR LOHAR**

Tulsi Ram Lohar  
Vallabhanager Udaipur  
Email: hulkbuster234567890@gmail.com  
Mobile: 8114402469

**NIRMAL CHOUBISA**

Heeralal Choubisa  
85 mukhya Chauraha nichli Badi Udaipur  
Email: choubisanirmal57@gmail.com  
Mobile: 6378942971

**RONAK KUMAWAT**

Mahendra Prakash Kumawat Udaipur  
Email: 18ronak02@gmail.com  
Mobile: 6367990356

**VIVEK SUTHAR**

Kishanlal Suthar Udaipur  
Email: sutharvivek115@gmail.com  
Mobile: 6367966843

**RANVEER SINGH RAO**

Karan Singh Rao  
Boyana, Tehsil Mavli Udaipur  
Email: ranveerrao52@gmail.com  
Mobile: 9057211193

**VISHAL TELI**

Prakash Teli  
inside brahmpole radheshyam marg Udaipur  
Email: telivishal55@gmail.com  
Mobile: 9549694310

**VIRENDRA SINGH****SHAKTAWAT**

Kishan Singh Shaktawat Udaipur  
email: shaktawatvirendrasingh485@gmail.com  
Mobile: 9602709043

**DEVENDRA SINGH****RATHORE**

Fool Singh Rathore  
kumbha mangri, brahmno ka ghuda, amberi Udaipur  
Email: devendrasingh158712@gmail.com  
Mobile: 9079158712

**NEELAM PRAJAPAT**

Hansraj Prajapat  
Bedla, Sukhdevi Nagar Sahivihar Colony Udaipur

**RAHUL RAWAT**

Mr. Chunni lal Rawat Mahraj ki khedi Udaipur  
Email: rawat995018@gmail.com  
Mobile: 6350227634



## POLYMER SCIENCE AND RUBBER TECHNOLOGY

### ABHISHEK TILAWAT

Girish Chandra Tilawat  
125, udai niwas kheda, chandesara,  
Rajasthan  
Email:  
abhishektilawat50@gmail.com  
Mobile: 6377073938

### AWALE ADARSH ANIL

AWALE ANIL VIJAY  
Kupwada MIDC, Dathh nagar,  
Bamoli, The- Miraj, Sangali,  
Maharashtra  
Email:2229adarshawae@gmail.com  
Mobile: 9890073376

### HIMANSHU LALAWAT

Ganesh Lalawat  
Chandesra, Udaipur,  
Rajasthan  
E.:himanshulalawat447@gmail.com  
Mobile: 9079823181

### ANKUR SHARMA

Dinesh Chandra Sharma  
Behind Swasti Cinema Kankaroli,  
Rajsamand  
Email:sharmaankur777@gmail.com  
Mobile: 8302255777

### BHARAT SINGH BHATI

Gamer  
Singh Bhati  
Rajput mohhla, basi, bhupal sagar,  
Udaipur, Rajasthan  
Email: bhatibharatsingh990@gmail.com  
Mobile: 6376156169

### ROHIT SUTHAR

Basant Suthar  
Sec-14 Near Nela Talab.  
Udaipur  
Email: rssuthar2000@gmail.com  
Mobile: 6375367581





# NAVDRISHTI 2022-23





# SARASWATI MECHATRONICS CENTRE



**BOSCH**  
Invented for life

## CERTIFICATE PROGRAMME IN MECHATRONICS

### What is the Mechatronics course?

A Job-oriented certificate program in Mechatronics with a focus on industry-specific skills that can help you in getting exciting jobs in electronics, mechanical, engineering, automobiles, auto components, white goods, capital goods manufacturing industries.

### Why should you choose this course?

Mechatronics technicians are in great demand by Industry to handle their modern and sophisticated machines

There are ample career opportunities for mechatronic trained technicians

Mechatronics training enhances the skill of technicians to work in industrial operations effectively and efficiently.

After the course, you can work as a junior technician, junior operator, industrial automobile technician in the organization and then progress further. The Center will assist in the placement of the trained candidates.

### What is the eligibility for the course?

ITI /diploma holders in the field of Electrical, Electronics, Mechanical, Tool & Die Making, Turners & Fitters are eligible for admission.

This is a 6 months full-time course with a curriculum prepared by BOSCH. The faculty comprises of highly experienced graduate engineers who have been trained by BOSCH.

### Who provides the certification?

A successful completion certificate is awarded jointly by BOSCH, VBS, and SSF; and by the Rajasthan ILD Skills University.

### What are the other facilities provided to the students?

Hostel and food facilities are available in the VBPS campus on payment basis.

The course is the on-paid basis, but, a loan with flexible repayment facility is provided to the students.

About Mechatronics: Mechatronics is a branch of engineering that focuses on designing, manufacturing and maintaining products that have both mechanical and electronic components. Mechatronics blends mechanical and electrical skills with electronic design.

**ADMISSION  
OPEN**





## QUOTES

'Its positive purpose was to provide for children an atmosphere of freedom for growth, and to promote in them a sense of civic responsibility. No doubt, this might in due course undermine our out-of-date social structure and the strongholds of reactionary forces. But the staff and students of Vidya Bhawan would not, it was clear, line up behind external organisations for any sectional or political ends.'

~ Mohan Sinha Mehta

## विद्या भवन पॉलीटेक्निक महाविद्यालय

अखिल भारतीय तकनीकी शिक्षा परिषद्, भारत सरकार द्वारा मान्यता प्राप्त एवं

प्राविधिक शिक्षा मण्डल, राजस्थान सरकार से सम्बद्ध

फतहपुरा, साईफन चौराहा, बड़गाँव रोड़, उदयपुर - 313004

फोन : 78520 70958, E-mail : [vidyabhawanpolytechnic@yahoo.co.in](mailto:vidyabhawanpolytechnic@yahoo.co.in),

Website : [www.vidyabhawan.in-polytechnic](http://www.vidyabhawan.in-polytechnic)