

Nandrishti

A Source of Inspiration
Combined Edition 2019-22



Vidya Bhawan Polytechnic College, VBRI, Udaipur
(ESTD. 1956)
(Run & Managed by Vidya Bhawan Society)

Navdrishti 2019-22

Combined Edition

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

नवदृष्टि

(संयुक्त संस्करण 2019-22)



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. Dilip Galundia

Vice President

Sh. Hemant Bohra

Honorary Secretary

Sh. Revati Raman Shrimali

Honorary Treasurer

Editorial



With enjoyment and pleasure, we put forward our dynamic piece of work of the endeavors of Vidya Bhawan Polytechnic in the magazine "Navdrishti". It is a compendium of the highlights of the academic and co-curricular achievements of the institution. It is furnished by the contribution of talented editorial team with their unique touch of cognition.

The magazine "Navdrishti" is an official magazine of the institution. This issue captures the imperishable moments of the last three years journey from 2019 to 2022. The achievements and efforts of the students were multitudinal that to capsulise them in one issue was very tough.

TEAM EDITORIAL

From (L to R) :

Jay (Member), Sikandar (Member), Dr. Anil (Patron),
Darshana (Member), Sonu (Chief Editor),
Teena (Member), Priyanka (Member)

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Vidya Bhawan Polytechnic At a Glance...

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/Biology 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

- Table Tennis
- Cricket
- Kabaddi
- Carom
- Basket Ball
- Volley Ball
- Badminton

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. Seven students acquired merit position for the session 2019-20 Examination in the Board of Technical Education, Rajasthan.
- 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 has participated in all the three consecutive editions until now. 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.

Social Endeavours: – Community Development through Polytechnic:

The Community Development through Polytechnic scheme is sponsored by the Ministry of Human Resource Development. It carries out Need Assessment Surveys to assess the technology and training needs; imparts Skill Development Trainings to the intended target groups; disseminates Appropriate Technologies for productivity enhancement; provide Technical and Support Services to rural masses and slum dwellers; and creates awareness among the target groups about technological advancement and contemporary issues of importance. The skill and knowledge acquired by the beneficiaries contribute for the welfare of the society. It provides them exposure in the community. Every year 300 to 400 people are trained through this cell.

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. Merit Awards:

4. 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.

5. 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.

6. 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.

7. 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.

8. Scholarships to Financially Weak Students:

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

The Departments

Department of Civil Engineering

The Department of Civil Engineering is the oldest and most reputed department in the entire state of Rajasthan. The Department is pioneer in providing quality education and training in the field of Civil Engineering. The Department produces quality technical manpower for the Design, Planning and Construction for various construction industries and organizations. It aims to promote education that helps students to gain fundamental knowledge, latest technologies and earn hands on experience so as to make them good Civil Engineers; and also to pursue higher studies. The students are trained on the entire components of Civil Engineering e.g. training in structural design, project planning, management, surveying, estimation and implementation, material testing, AutoCad and other softwares related to civil construction.

Laboratories:

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

Faculty:



Er. Jai Prakash Shrimali
Diploma, AMIE, M.Tech.
(H.O.D.)



S.No.	Name	Designation	Qualification	Experience
1.	Jai Prakash Shrimali	H.O.D	Diploma, AMIE, M. Tech.	31 years
2.	Jaykant Dave	Lecturer	Diploma AMIE	34 years
3.	Dr. Anil Mehta	Principal	M.E., Ph.D.	28 years
4.	Chandresh Arora	Lecturer	B.E.	24 years
5.	Girish Vaishnav	Lecturer	B.Tech.	8 years
6.	Manisha Sharma	Instructor	Diploma	13 years
7.	Bheru Lal Prajapat	Instructor	Diploma	11 years

Department of Computer Science & Engineering

The Department of Computer Science aims 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 endeavoring to give the best to make the students outstanding Computer and Software Engineers. State-of-the-art laboratories are loaded with latest softwares. Students are guided by the faculty to develop projects in advanced languages like JAVA, PHP, VB.NET, ASP.NET etc. and to participate in Smart India Hackathon organized every year by the Government of India.

Laboratories:

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



Er. Devendra
B.Tech.
(H.O.D.)



S.No.	Name	Designation	Qualification	Experience
1.	Devendra Purohit	H.O.D	B. Tech.	11 years
2.	Bhuvan Ameta	Lecturer	B.E.	10 years
3.	Jai Sharma	Lecturer	B.E.	10 years
4.	Priyanka Jain	Lecturer	B.E.	9 years
5.	Hemchandra Vaishnav	Lecturer	B.E.	9 years

Department of Electrical Engineering

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. Nitin Sanadhya
B.E., M.Tech.
(H.O.D.)



S.No.	Name	Designation	Qualification	Experience
1.	Nitin Sanadhya	H.O.D	B.E., M.Tech.	20 year
2.	Ramesh Chandra Kumhar	Lecturer	B.E., M.Tech.	15 years
3.	Pankaj Kumar Singh	Lecturer	B.E.	15 years
4.	Gaurang Sharma	Lecturer	B.Tech.	11 years
5.	Darshana Sharma	Lecturer	M.Tech.	10 Months
6.	Kamlesh Kumawat	Lab Technician	I.T.I.	23 years
7.	Neeraj Vaishnav	Lab Technician	I.T.I.	7 years

Department of Electronics Engineering

The Department of Electronics Engineering imparts knowledge, understanding and skills in the field of Electronics & Communication. The vision of the Department is to educate and train the students so as to prepare them ready for Industry. The Department has highly qualified, competent and devoted faculty with long teaching experience. The laboratories in the Department are equipped with the latest equipments and simulators according to current milieu and training is provided on high end softwares like Express PCB & MATLAB. The Department has its own Classroom Library including reference books, text books, project reports, magazines, CDs, DVDs.

Laboratories:

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



Dr Deepak Gupta
B.E. (Hons), M.E., Ph.D.
(H.O.D.)



S.No.	Name	Designation	Qualification	Experience
1.	Dr Deepak Gupta	H.O.D	B.E. (Hons), M.E., Ph.D.	25 year
2.	Sushma Trivedi	Lecturer	B.E.	13 years
3.	Mohd. Sikander	Lecturer	B.Tech.	10 years
4.	Amit Kushwaha	Lecturer	B.Tech.	10 years
5.	Radhakishan Menaria	Lecturer	B.E.	9 years
6.	Meenakshi Menaria	Lab Technician	I.T.I.	11 years

Department of Information Technology

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



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



S.No.	Name	Designation	Qualification	Experience
1.	Gaurav Paliwal	H.O.D	B.E., M.Sc. (C.S.)	15 year
2.	Hemant Menaria	Lecturer	B.E.	10 years
3.	Pritesh Nagar	Lecturer	B.E.	11 years
4.	Abhishek Mogra	Lecturer	B.E.	10 years

Department of Science & Humanities

Basic and Applied Sciences are core to technical education. The Department of Science & Humanities provides a conducive environment to impart technical knowledge through teaching and learning. The Department instills requisite knowledge and skill to develop ability in the students to apply knowledge of Mathematics, Science, English & Communication Skills, Fundamentals of Computer and IT in engineering. The Department has qualified, experienced and devoted faculty. The Department furnishes focus on early personality development 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 Heerawat
M.A. (English), Ph.D. (Pur.)
(H.O.D.)



S.No.	Name	Designation	Qualification	Experience
1.	Sonu Heerawat	H.O.D	M.A. (English), Ph.D. (Pur.)	18 years
2.	Hemant Salvi	Lecturer	M.Sc. (Physics)	6 years
3.	Mahendra Pal	Lecturer	M.Sc. (Chemistry), Ph.D. (Pur.)	6 years
4.	Dr Snehlata Kothari	Lecturer	M.Sc. (Mathematics), M.C.A., Ph.D.	19 years
5.	Bharat Shrimali	Lab Technician & Yoga Instructor	B.Com., M.A.(Yoga)	11 years
6.	Nayan Bhatnagar	Lab Technician	I.T.I.	11 years

Department of Polymer Science and Rubber Technology

The Department of Polymer Science and Rubber Technology was established in the year 2011 for the first time in India with initiative, help, support and guidance of Hari Shankar Singhania Elastomers and Tyre Research Institute, JK Tyre and Industries Ltd. and Indian Rubber Institute, Rajasthan. The Department offers Post Diploma Course in Polymer Science & Rubber Technology and DIRI/PGDIRI. The Department prepares technologists for various Rubber Industries, both of auto tyre, non- tyre sectors, covering rubber products, raw materials, processing machinery and testing equipments etc. The students are eligible to acquire dual degree-Post Diploma from the Board of Technical Education Rajasthan, Government of Rajasthan; DIRI/PGDIRI of Indian Rubber Institute (Comptroller of Examination is RT Centre, IIT, Kharagpur)

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

Laboratories:

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



Mr. Vikram Kumawat

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

S.No.	Name	Designation	Qualification	Experience
1.	Dr. Vikram Singh Kumawat	H.O.D	PhD. (Chemistry), M.Sc. (Polymer Science), PGDIRI RTC IIT, Kharagpur	13 year
2.	Mr. Sunil Jagasia	Hon. Faculty	B.Sc., L.P.R.I., P.G. Diploma	41 years
3.	Mr. Rajeev Bhatnagar	Hon. Faculty	B.Tech., M.Tech., M.B.A., P.G.D. I.R.I.	37 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 Sanadhya	Lecturer	B.E.,M.Tech. & BOSCH Trained	20 years
2.	Ramesh Chandra Kumhar	Lecturer	B.E.,M.Tech. & BOSCH Trained	15 years
3.	Gaurang Sharma	Lecturer	B.Tech. & BOSCH Trained	11 years
4.	Mohd. Sikander	Lecturer	B.Tech. & BOSCH Trained	10 years
5.	Amit Kushwaha	Lecturer	B.Tech. & BOSCH Trained	10 years
6.	Sonu Heerawat	Lecturer	M.A. (English)	18 Years
7.	Dr Snehlata Kothari	Lecturer	M.Sc. (Mathematics), M.C.A., Ph.D.	19 Years

Administrative and Accounts Staff

Office Superintendent

Mr. Sudhir M.S.W.

Office Assistant

Mr. Uma Shankar B.A.

Mr Nand kishore B. A.

Mr. Om Prakash M. A.

Accountant

Ms. Durgawati M.Com.

Asst. Accountant

Ms. Khushboo M.Com., B. Ed.

Asst. Librarian

Ms. Tina Sisodia M.A., M. Lib.

Support Staff

Sh. Dungar Singh Sh. Nand Lal

Sh. Mangi Lal 1 Sh. Ganesh Lal

Sh. Mangi Lal 2 Sh. Narayan Lal

Sh. Ratan Lal Sh. Prakash Das

Sh. Jay Singh Sh. Pushkar

Sh. Jagdish 1 Sh. Jagdish 2

Sh. Kuldeep Smt. Durga

Sh. Hemraj

ANNUAL REPORT

2019-20

Vidya Bhawan Polytechnic College (Estd.1956) provides technical education (Engineering Diploma) in Civil Engineering, Electrical Engineering, Electronics Engineering, Computer Science and Information Technology streams. Its vision is to prepare skilled technical personal who are socially & environmentally sensitive and enterprising citizens. The Polytechnic is committed to make its students employable and enlightened citizens through effective skill training, industry- institute interface, co-curricular activities and community connect events. The focus of education and training at Polytechnic is on hands on practical learning, entrepreneurial approach, problem-solving, critical-thinking aptitude and inclusiveness.

The report of the activities, achievements and commitments of the session 2019-20 is as cited under:

Result: During the year 2018-19, 460 students (417 boys and 43 girls) studied at the polytechnic and 64.84% regular students passed. We feel proud to share that the Institute has topped in May 2018 Board of Technical Education, Rajasthan in the entire State of Rajasthan. While from the batch 2014-15, 43.58% students were finally awarded Diploma.

Academics

Total 460 students took admission in the session 2019-20 and there were 62 students in Civil, 34 in Computer Science, 53 in Electrical, 16 in Electronics and 17 in Information Technology. Both, theory and practical classes were held as per the norms of the Board of Technical Education and Remedial classes were conducted for Mathematics, Physics and Mechanics for weak students.

In addition to the regular classes, Expert Lectures & Workshops were conducted on the following topics:

- An expert lecture on 'Artificial Intelligence and Logical Thinking' was conducted by the Department of Computer Science and Information Technology. The lecture was delivered by expert faculty Nilay Mathur, Director, SSPL and Ragon Jose, Trainer. During the lecture Artificial Intelligence was introduced to the students; some activities were administered to test problem solving skills and logical thinking of the students; tips to improve the same were given, main aspects of Object Oriented Programming; solution of Rubik's cube with algorithms and logical programming were demonstrated.
- Vidya Bhawan Society, Rural Institute, polytechnic and Indian Rubber Institute-Rajasthan Branch jointly organized a National Workshop on 'Circular Economy & 5 R Strategy for Industry: Challenges and Opportunities'. The key speaker Dr. Mukhopadhyay said that "Gold is hidden in waste". It was informed that the garbage generated in the country is a kind of wealth, with its proper management and treatment, the environment will improve and there will be increased employment opportunities. Techniques and approaches of waste management were discussed



Expert Lecture on
Artificial Intelligence

and demonstrated in the workshop by researchers and the industry representatives.

- An expert Lecture on 3-D Printing (Additive Manufacturing) was conducted by the Department of Computer Science & Information Technology. Nowadays 3-D printing is an emerging concept for creating any object according to need of our daily life. We can also convert our imagination into the real world object through printing. Mr. Parth Agrawal, Co-founder of Sarga gave a brief history of 3D Printing, Bio Printing and various types of 3D Technologies like Stereo-lithography, Digital Light Processing (DLP), Selective Laser Sintering/Melting(SLS), Binder Jetting (BJ), Fused deposition modeling (FDM) etc. The application areas are living organ printing, for project prototype, in small scale production industry, object printing, Automobile parts manufacturing, in education, fashion designing and in small level startup etc.
- An Expert Talk and Interaction was organized on 'Technological Options for Safe Reuse of Waste Water'. Dr. Dharma Hegde from Western Sydney University was the key speaker.
- The Department of Science and Humanities conducted an expert lecture on 'Fundamentals of Computer Science & Information' for the students of First Year. The lecture was delivered by Mr. Tarun from NIIT, Udaipur.
- A city-wide on-site traffic survey, as a part to assess the feasibility of the proposed city bus operations by the Udaipur Smart City Ltd. and International Council for Local Environmental Initiatives-South Asia, was commenced by the students of Civil Engineering students. Around 100 students were allotted 40 locations across the city to find out the number of people using public transport on various routes in the city.
- Magsaysay and Stockholm Water Award winner Waterman Sh. Rajendra Singh visited the Polytechnic and released the publication of MARVI (The Managing Aquifer Recharge and Sustaining Groundwater Use through Village-level Intervention); and Mywell App. The (MARVI) Project is being run in selected villages of Udaipur and Gujarat. In the talk, Dr. Basant Maheshwari stimulated awareness of groundwater consumption, groundwater recharge, and use of scientific methods in agriculture.
- The Polytechnic conducted a seminar on "Water and Human Rights" jointly with Lake Conservation Committee. The key speaker Dr. Nandita Singh, author of the world-famous book "Human Rights to Water - From Concept to Reality" and Senior Professor of Water Management in Stockholm conferred in the seminar about the correlation of availability of water in nature and our human rights to get pure and appropriate water.
- To update the knowhow of the students related to Cyber Security, an expert lecture was organized by the Department of Computer Science & Information Technology on 'Data, Web Application and Network Security'. Mr. Himanshu Sharma, Co-Founder of The Hactivists, and Mr. Piyush Malviya, Security Researcher informed about Bug Bounty, easy, medium and advanced bugs, Burp Suite,



Interaction on
Ground Water Management



Personality Development Session

Cookies etc.

- A one day training and workshop was conducted on 'Practical Applications of Total Station and GPRS Instrument' for the students of Department of Civil Engineering.

Technical Visits

- The students of department of Electronics visited the Solar Observatory. A presentation on solar physics and various aspects of Astronomy and Astrophysics, Planetary Science and Exploration, Space and Atmospheric Sciences, Geo Sciences and Theoretical Physics was given by the facilitators. Light was also thrown on the various policies and steps taken in the direction to flourish the observatory system. The students observed and acquired knowledge about the back-end instruments of MAST, developed in-house at USO, an adaptive optics system and a narrow band imaging polarimeter using a Tandem Fabry-Perot etalon pair and LCVR polarimetric module.
- The students of the Department of Electrical Engineering visited the 132 KV G.S.S, Pratap Nagar and Power System, Udaipur. The students observed various types of transformers and switch gears and understood the parallel operation and protection of transformers and control panels at G.S.S. At Power System, students observed maintenance and repair of various electrical machines.
- A three day technical excursion to Jodhpur and Jaisalmer was organized by the students of Department of Computer Science & Information Technology. The students visited the following software companies during this visit.

Projects

Every year students make innovative projects and apply their knowledge and skills; and thus transform their theoretical knowledge into socially useful and productive applications. Projects developed this year include:

- How Electronics and IT Industry will be affected in India due to Covid-19
- Post COVID-19 challenges and suggestions in education system
- Role of Electronic and IT in improving Domestic Life due to Covid-19
- PC Build Up
- Blood Bank and Donor Management
- Management Information System (MIS) Software for IMOs
- Database for Results; Digital Library Management System
- Android App Stay Safe from COVID 19; Pandemic-2020
- Web based Chat Application using Asp.net MIC; e-learning
- Automatic Unauthorized Parking Detector with SMS Notification to Owner Automatic Room Temperature Control System
- GSM Based Home Security System; Solar-based Underground Cable Fault Distance Locator & Energy Saving System; Smart Street Light, Solar Powered Ambient Lighting
- Temperature and Humidity Controller for Adverse Weather Conditions; Accident Avoiding System



with Crash Detection and GPS Notification; Microcontroller Based Automatic Engine Locking System for Drunken Drivers

- Planning of a 15000 square feet area-such as bungalow, bank building, commercial building, hotel building and multi-storey flats as per the norms of UIT, Udaipur.

Participation in Smart India Hackathon

Smart India Hackathon is world's biggest open platform for the innovators of tomorrow. It is a nationwide initiative launched by AICTE and MHRD to provide students with a platform to solve some of the pressing problems faced in daily lives, and thus inculcate a culture of product innovation and a mindset of problem solving. The Polytechnic has participated in all the three consecutive editions till now and it is a matter of pride that Polytechnic has been the only representing Polytechnic from the Northern region (others were engineering colleges & universities). This year, the team led by faculty Er. Hemchandra Vaishnav and Er. Pritesh Nagar will create an Online Information Management System for IMOs (Self Help Group) corresponding to the problem statement for designing a system to capture information related to women beneficiaries (i.e. women micro-entrepreneurs) such as loan account information, repayment track record, economic activity, personal information, income level, savings, demographic details assigned by the Rashtriya Mahila Kosh. The students will prepare a model to direct the user (having no access to internet or e-mitra) who wants to apply for loans through NGOs. Once applied for loan, the RMK admin will assist as per the need. A user-friendly chatbot shall be generated for dialogue flow and mechanism learning. Then, EMI details will be stored in the database and create an automated EMI message and message alert system. The model will also integrate a payment gateway, encryption technique for cyber security, WhatsApp group, multi-language feature and an option for the admin to procure monthly and yearly report.

Saraswati Mechtronics Centre (SMC):

The SMC, established by Sarswati Singhal Foundation and Bosch, has successfully completed one year. The centre provides training in Mechatronics, Automation and Advance Manufacturing. In the first batch there were 10 students and 30% students were able to clear the course. The SMC organized 24 days summer training of students of Second Year of the Polytechnic. Similarly, 10 days training of students of JK ITI was also conducted. The regular 6 months course was successfully conducted and presently all the students are taking industrial training at Tempson & Pyrotech Industries.

The first anniversary was formally celebrated on 26th January. Prominent industrialists, Members of VBS management, faculty and students participated in the celebration.

During the year 2019-20, many dignitaries including Shri Ramesh Singhvi, President, UCCI, Shri P. S. Talesara, Managing Director of Pyrotech Industries and Shri V.P.Rathi, Managing Director of Tempsons Limited, Waterman Shri Rajendra Singh and Shri D.S.Yadav, Director of Technical Education, Rajasthan visited the Centre and expressed praise for it.



Visit of Delegation from UCCI at SMC



Visit of Delegation from UCCI at SMC

With the inspiration of Shri Salil Singhal Sahab, the main force and strength of SMC, Rain Water Management and Artificial Recharge System have been installed in the Polytechnic and KVK premises. It harvests the rain water of mini catchment in which the SMC is located.

Co-Curricular Activities:

Engineer's Day:

The Institution of Engineers (India) & Indian Society for Technical Education (Student Chapter) and Alumni Association of Polytechnic jointly organized Engineer's Day. In this event, an Essay Competition on 'Single Use Plastic Free Polytechnic Campus' and a Poster Making Competition on 'Rain Water Management Project Executed in KVK Campus' were organized. Mr. Hansmukh from KVK elucidated about Rain Water Management. Mr. Manav Singh from MSMMT and Mr. Sunil Jagasia from Department of Polymer Science & Rubber Technology were the chief guests of the occasion.

A few new students were added to the Swacchta Team formed by Manav Singh, Secretary, MSMMT.

Fresher's Day:

To welcome new comers, encourage companionship, and synergy between seniors and juniors, Fresher's Day and Fair 'Meljol' was organized. Vivacious cultural performances were made by the new entrants. To apprise the students to learn entrepreneurship skills, planning, management and marketing skills in the students, a fun-filled food fair 'Meljol Fair' was organized on the same day. Well-decorated stalls of eatables and games were set up by students and faculty.

Sports Events:

Games and sports are always given due importance at the Polytechnic. So, for all-round and integrated development of students sports like volleyball, kabaddi, badminton and carom were organized in the first round of sports.

Activities of National Service Scheme (NSS):

- i) Participation in Workshop Addressing 'Child Marriage and Adolescent Empowerment': The student volunteers participated in a district level workshop on addressing 'Child Marriage and Adolescent Empowerment' aimed to make adolescents aware people about child marriage, women empowerment and prevalent social evils. The students gave a poster presentation which was prepared on the spot.
- ii) Gandhi Jayanti Celebration: A Cleanliness Campaign was commenced on the occasion of Gandhi Jayanti. The student volunteers did 'Shramdaan' and cleaned the college premises.
- iii) Seven Day Camp at Prakriti Sadhna Kendra: A seven day residential camp for volunteers was conducted at Prakriti Sadhna Kendra. Total 30 students participated in the camp. All faculty members also gave their presence and contributed to make the event a success. Various activities were performed during the camp like hiking, trekking, shramdaan, plantation, yoga, awareness program. Personality development sessions, expert lectures and discussions



Gandhi Jayanti

were a regular feature of the camp. Dairy writing was a mandatory custom at the end of the day. The students went in tribal households at Bhilon Ka Bedla and carried out sample survey of drop-outs and found that literacy rate was very low as the major population is involved in labour and agriculture work. So, they performed a skit to make people aware of the importance of education, de-addiction, cleanliness and eradication of prevalent superstitions. The students also convinced the parents to send their children to school daily. They also spread a message of love and harmony among the people of community.

- iv) Participation in CSC Academy Drone Carnival: Around ten students from various faculties participated in the Drone Festival at VB Senior Secondary School. Comprehensive information was specified about the uses of Drones with live demonstrations.



Mask Distribution by National Service Scheme Unit



NSS Camp at PSK

Activities of Training and Placement Cell

The training and Placement Cell regularly keeps in touch with reputed industrial establishments. The institute witnessed participation of a few companies like Yadav Measurements Pvt. Ltd., Larson & Tubro, Dadve Autotech, Mewar Polytec etc. and 10 students were selected through campus placement drives by the companies. Remaining students opted for higher education.

Other Activities:

- An orientation program was conducted for the parents and students of new entrants at the beginning of the session with the objective to acquaint with the norms and system of education at the Polytechnic and the values of Vidya Bhawan. In order to discuss the scholastic performance of the students, Parent's Meeting was conducted after the First and second internal exam. Around 100 parents participated in each meeting.
- In an initiative to provide practical exposure to all the First Year students through easy-to-work from home, the students have been registered in "Internshala". It would help them stand out when they finally enter the job market and gain experience of the professional world.
- VB Polytechnic in collaboration with VB Language Club organized two Kavya Goshthis and discussions this year. The first one being on the theme of "Sahitya aur Prakriti Sanrakshan" on the occasion of Hindi Diwas and the other being "Basantotsav-Umangotsav". Renowned poets from across Rajasthan, faculty members and students from different VB Institutions and students participated in these events.



Kavya Goshthi

Scholarships Awarded to Needy Students by Shiksha Shakti Foundation

Every year the philanthropic organization Shiksha Shakti Foundation (SSF) Bangalore provides full scholarships to needy students of Polytechnic to pursue their education. The scholarship is conferred in memory of hon'ble Late Shree Harcharan Das Govil & Smt. Munni Devi. In continuation with its noble commitment, the foundation has released the scholarship of Rs. 567,500 to fifteen awardees (Rs. 36,700 to each and Rs.17,000 for hostel expenses to a student) for the session 2019-20.

Skill Development Programs: The Community Development through Polytechnic (CDTP) scheme at the Polytechnic conducted free Skill Development courses in several trades including House Wiring, Motor Winding & Repairing, AC & Refrigeration, Mobile Repairing, Data Entry Operator, and Beauty Culture were conducted. 65 persons participated in these trainings, of which 56 trainees got employment after the completion of the training program. Another training program was conducted on Cutting & Tailoring in which 27 women were trained.

International Youth Skill Day was celebrated which was attended by the former trainees.

In order to increase awareness for safety measures and sensitivity towards septic tank and sewer cleaners, a workshop was conducted in the Municipal Corporation by CDTP. The importance safety practices and precautions needed to be observed while cleaning septic tank and sewer were explained to the participants. Demonstration was given on how to wear safety belts, open the lid, save eyes, wear helmets.

An awareness camp was conducted on "Professional Health" for the nursing students. They were made aware of health, hygiene and sanitation practices.

Challenges:

The COVID 19 pandemic has significantly disrupted the technical education. At Polytechnic, this is a crucial time as internal tests, board examinations-both theory and practical, industrial training, projects, placement drives and most importantly- new admissions, are all held during this period. All has come to a sudden standstill. Although, the course had already been completed by the faculty prior lockdown, as the third internal tests were pending in the first week of April. The closing of college has led the students to stay at home at such vital time when they had been completing sessional work, revising, solving old question papers and preparing for the final examinations with the help of the teachers in the classes.

Now, teaching in real classroom has shifted to the virtual one. The faculty at the Polytechnic will provide all kind of assistance during the lockdown period to the students whether academic, placement, project making and training, yoga and meditation sessions for better physical and mental health etc. using various digital tools of instruction for the benefit of the students. Important notes, solved question papers and video lectures of theory and practicals are being prepared and shared on



Inaugural Session of Skill Development Training



Skill Development Training

WhatsApp groups to ensure minimal academic loss for students.

But it has its own disadvantages like some of our students come from remote villages with slow and patchy internet access. Many students survive on 1GB or 2GB daily data plans on their phone or not everyone has WiFi at home, a few don't even have a smart phone, some do not respond or complete the assignments timely. It is difficult to pursue and monitor each student strictly online as monitored in the real classrooms. Further, teaching is not just about classes. It is about interactions, broadening of ideas, discussions, and mentoring of each student.

As per the instructions received from the Board of Technical Education, the faculty will be preparing e-lectures on daily basis.

Presently, the biggest challenge in front of the Polytechnic in the present crisis is new admissions that had already been afflicted in the previous years. The Directorate of Technical Education gets less than 20 percent online applications against total seats available in the state. The Polytechnic received 128 admissions against the total 240 seats. The chief reason being the mushrooming of colleges and Polytechnic courses losing appeal due to declining job opportunities. But still, the percentage of received applications and new admissions at VB was relatively better than other colleges in Rajasthan. In the present crisis, the situation is going to be even graver. It would be difficult to convince and assure the parents about the safety and security of the students.

Despite all the odds, the Polytechnic is trying its level best to improve the enrollment. Rigorous admission promotional campaign has been initiated at institute level from January. A huge database of 10th and 12th class students from RBSE and CBSE, government and private schools had been gathered beforehand. Presently, as everything is dependable on digital platform, the Polytechnic has started Digital admission campaign. Several social media platforms like Facebook, WhatsApp, YouTube etc. are being exploited extensively for the campaign. Regular phone calls are being made to the students and parents. Many parents have shown interest in visiting the campus.

The greatest USP of the Polytechnic in the current situation is its sprawling campus, huge classrooms, laboratories and workshops, large library which would offer assurance to parents for health and safety of students. The classrooms have been modified keeping in view of proper physical distancing. The furniture has been arranged at a distance of 1 meter in the classrooms and labs. Safety protocols including hygiene measures; regular cleaning and sanitization; social distancing shall be strictly followed. A footstep sanitizing system has been installed in the campus.

Thus, the Polytechnic is determined and confident to take this challenge as an opportunity in the current crisis.

ANNUAL REPORT

2020-21

Vidya Bhawan Polytechnic runs diploma courses in Civil, Electrical, Electronics, Computer Science and Information Technology, with a vision to contribute to socially & environmentally technical person power. High-quality teaching and learning, with emphasis on hands-on experience, gives students an edge for better employability.

The academic year 2020-21, because of the Covid-19 pandemic, brought in an unprecedented challenge in the world, in general, and in specific to different domains, including education. Overall it changed the teaching-learning process, from school to higher education, adopting digital learning as a dominant medium to reach students.

Vidya Bhawan polytechnic experience was no exception. It got impacted by the pandemic, although it changed the way students learn, depleted new admission, students attendance went down, along with overall finance. The only silver lining was continuous efforts by faculty to improvise digital teaching by making it engaging, interactive and appealing and reducing associated glitches—networking, online attendance classes from home etc. Not to say, digitalization did open another opportunity to provide students with better academic resources to students. Another plus for digital mode lies in making no student feel left out as the camera image of a teacher is curate in a manner to reach all.

After the initial pandemic national lockdown, reopening of institutions remained far from being smooth as one has had to follow a set protocol to avoid human infection. Making students, faculty and visitors adhere to it was a Herculean task. For this reason, reopening got staggered, starting from final years students to gradually allowing students from other batch. The immediate rush was preparing first students to take exam, due in March 2021. The rush led to overwhelmed academic task for the faculty.

The first and the second semester went all smoothly. The Second Year and Third Year board exam got shifted to June 2021 due to second Covid wave in the late week of March. As a result of the second Covid wave in March, the institution closed even before the new student batch getting to know the institution properly. They went back online class mode.

Like to most individuals, the pandemic led to a personal financial crisis, for some even paying got difficult. Polytechnic came to students' rescue allowing first-year second-year and third-year students to pay fees in installments. Other relief to students came from V.B.S. Society, the Shiksha Shakti Foundation and AICTE Pragati Scholarships. These scholarship provided direct fees to select and needy students through individual donation.

Despite all odds, the slowing down of normal function, the institutional did manage different activities in the 2020-21 sessions, as reported below:

Students Results: The 2020-21 academic sessions had 396 students— (348 boys and 48 girls). The First Year and Second Year students got promoted to the next level through an internal assessment test. About seventy-seven per cent of students appearing for the final year examination cleared it, with

many from all five branches on Board of Technical Education (Rajasthan) merit list. Ms Varshang Shrimali, Mohd. Farhan and Lokesh Dangi secured first, second and third positions respectively in the Information Technology branch. Deepesh Kumawat and Ankit Kumar got second and seventh positions in Electronics Engineering. Jaydeep Mali acquired the fifth position in Civil and Lokesh Vyas secured eighth in Computer Science & Engineering. The year also saw 52.52 % of 2016-17 students receiving their Diploma.

New Admission: 2020-21 had 137 new students: 129 in Civil, 79 in Computer Science, 116 in Electrical, 31 in Electronics, 24 in Information Technology and 17 in Polymer Science & Rubber Technology.

Webinars: During the pandemic, webinars became the way to communicate, though it existed before Covid, as detailed below, to connect with students, internal and external faculty and people outside the institution.

- **Career Counseling:** A webinar introduced students on available career option after their secondary education, including Polytechnic in-house regular courses, and short term courses in Mechatronics, and Polymer Science & Rubber Technology. During the interaction with the students, lots of discussions went into building a better career around these skills and vocations.
- **Mechatronics and Industry:** A webinar specifically introduced Polytechnic students and those from outside on six months Saraswati Mechatronics Centre (S.M.C.) certificate course and related job opportunities.
- **Interaction on Energy Swaraj:** Essence of Sustainability: Prof. Chetan Singh Solanki—Indian Institute of technology – also known as 'Solar Gandhi', visited Polytechnic in his specially designed solar bus to interact with students, faculty and invited visitors. The solar bus is part of the movement called the Energy Swaraj across the world. Prof. Chetan Singh in his interaction with people during his visit spoke about his commitment against pollution. He said, if pollution remained unchecked, every year, the average earth temperature will go up. Unless an effort gets made to save the earth for the next generation, traditional energy sources will keep depleting, in turn polluting the universe. It is high time to switch to renewable energy sources as a part redeeming earth. The bus had inbuilt home, office, kitchen, toilet and study room, with all facilities running on solar energy.
- **Workshop on Water Day:** Polytechnic Community Development unit and Eco Club jointly organized a workshop to commemorate Water Day. Students shared their views on water conservation and ways to save it from pollution. The workshop suggested student's ways to check water pollution by limiting plastic use. Moreover, plastic affects animal's health, as they tend to easily swallow it. The workshop came with some suggestion on recycling plastics in the environment Eco-bricks for civil constructions. To mark the occasion, the institutes Principal expressed his view in the Indian Institute of Mass Communication (New Delhi) Community Radio Station.

Faculty Development Programs Participations: One way of keeping updated on one's knowledge is interacting with other fellows from similar trade. Despite the pandemic lockdown, Polytechnic faculty used online opportunities for such interaction.

- Polytechnic faculties participated in a national Webinar that spoke of ways to create better industrial response to the covid pandemic. Webinar Industry Institute Interactive Cell (I.I.I. Cell) had Polytechnic Principal Dr Anil Mehta in the panel, along with Director of Directorate of Technical Education as program chief guest. The Webinar discussed the importance of required skills, training, internship, and projects with the students. Dr. Mehta gave details about Saraswati Mechatronics Centre and its training facilities for up skilling ITI and Diploma students.
- A national webinar on Environment and Sustainable Development, with state Minister of Technical Education and Dr Anil Mehta as panelists, discussed issues like renewable energy, water resource management, and its impact on climate change and global warming and the teacher's role in sustainable development.
- Name of the similar webinars attended by the faculties are: Online: The New Normal in Education; Enhancing and Upbringing of Learning in Technical Education with Digital Platform for Conducive Outcome; Industry's Dimensions–Job Market; Opportunities and Challenges During COVID, Reforms in Polytechnic Diploma-Lockdown and New Normal, Joy of Giving and Yoga and Health. Such programs update the faculty and are significant for capacity building.

Industrial Visit: An industrial visit for Final Year Civil Engineering students at Mewar Polytex Pvt.Ltd helped them get first-hand, practical information on the use of new technology and dome construction.

Industrial Training: Industrial training is the organized way of improving and enhancing knowledge and skill set of engineering students. It boosts the performance of students and helps them to meet career objectives. It significantly improve their attitude, communication and work attitude. Following the Board of Technical Education directives, the Polytechnic arranged industrial training for Second Year students at Government and Private Organisations. Given the Covid situation, the training mode had blended offline and online training. Some students got trained in Automation and C.N.C. at Polytechnic Saraswati Mechatronics Centre.

Projects: Writing technical projects is integral to the curriculum. It reflects subject understanding, get practical knowledge and opportunity to showcase learnt skills. Project writing gives students' confidence for better preparation for the industry. List of some of the projects prepared by students is following: Second Home, Duplex Bungalow, Residential Apartment, Commercial Complex, and Row Houses, detailing Of One Duplex Bungalow, Sensor-Based Automatic Street Light System, Sensor-Based Touch-free Chemical Dispenser, Timer Based Fully Automatic Star Delta Starter, Single Axis Solar Tracking System, Speed and Direction Control Of DC Motor by Android-based mobile phone, Automatic Railway Crossing Gate, Wireless Power Transmission, Event Management Website, Toll Plaza System Using Smart Card, News Website, Automatic Irrigation System Using Microcontroller, Design And Prototyping of a Low-Cost Portable Mechanical Ventilator, Wireless Power Supply, College Insights, Code Share, Easy Trade, Hospital Management System and College Social Network Project.

Campus Placement: Pandemic-related uncertainty in the economy and related recession negatively impacted campus recruitment. Most industries chose to go slow on new recruitment, moving

Polytechnic students overall morale. The Placement Cell efforts led to two companies— L&T and Mewar Polytex Ltd—visiting campus for recruitment, selecting three students.

Other Activities: Besides the regular academic activities, several other activities added value to the institute's life during the session.

Workshop on 'Integrated Water Resources Assessment of Upper Berach Basin (Ahar River),

Udaipur District: To develop a state-of-the-art data support system for the Ahar River Catchment (Upper Berach Basin) in Udaipur, the University of Copenhagen Denmark in partnership with Geological Society of Denmark, Greenland, D.H.I. India, Development Alternatives (Delhi) and Vidya Bhawan Polytechnic, Udaipur is developing a research program based on workshops from October 2020 to September 2023.

The inception workshop by the program partners on 26th March 2021 introduced the project, its partners, study area, and methodology. It got followed by each stakeholder role, their experience, and available knowledge to improvise water management in Udaipur. The workshop also shared a comprehensive understanding of hydrological parameters, sources of information data points, cooperation and stakeholder commitments, and citizens' role in the research. Further, the workshop highlighted critical challenges of the city: groundwater quality and scarcity, watermanagement, surface water pollution through lakes and groundwater hardness. The potential of collaboration in the water sector between Denmark and India through a green strategic partnership focused on sustainable water economy and sustainable development got discussed.

Industry-Academia Conclave: The institute Principal Dr Anil Mehta participated in the Conclave— How to bring Industry and Academia Closer. Udaipur Chamber of Commerce & Industry (UCCI) organized the Conclave. Dr Mehta, in his talk, highlighted the synergic and symbiotic relationship between academia and industry. He spoke about various Vidya Bhawan and corporate partnerships projects: Unchi Udan, Saraswati Mechatronics Centre, Coding Club and Rubber Technology. He ended his talk appealing to entrepreneurs to work on diet and nutrition in rural and tribal areas and strengthen school education.

Interaction with UCCI officials on Industry Institute Relation: The faculty of Polytechnic interacted on Industry-Institute Relationship with some of the city's leading industrialists at the UCCI Hall. UCCI President, Mr Komal Kothari generously offered to help the students and Polytechnic faculty in the best possible way to use the latest technology through his Vocational Training Centre. After the meeting, Mr Komal Kothari and Mr R.S. Vyas, In charge of Vocational Training Centre, visited the Automation Lab, Mechatronics Lab and Advanced Production Lab of Polytechnic Saraswati Mechatronics Centre.

Renewal Process for Affiliation to Board of Technical Education and Approval by All India Council for Technical Education: The Polytechnic renewal Board of Technical Education and approval by All India Council for Technical Education got completed. Similarly, the Saraswati Mechatronics Centre received affiliation from Rajasthan Skill University.

Suggestions to the Board from the Faculty of Computer Science & Information Technology for the

new Semester Scheme and Industrial Requirement: Suggestions were invited from the teaching community by the Board of Technical Education to revise its education scheme. A routine process every ten years. The Faculty of Computer Science & Information Technology gave valuable suggestions for improving the syllabus as per the industry's need. As a change in the syllabus, this year, the Board introduced Semester Scheme.

Other Achievements: Principal Dr Anil participated as an expert speaker at Water Conclave, Sixth India International Science Festival organized by the Ministry of Science and Technology, Ministry of Earth Sciences, and Ministry of Health and Family Welfare, Government of India. He addressed "Jal Pathshala-Rain Water Harvesting and Pond Rejuvenation". The Science Festival got inaugurated by the Hon'ble Prime Minister and Valedictory ceremony, chaired by Hon'ble Vice-President.

Smart Studio Donated by V.B. Alumni Association: A multipurpose interactive Smart Studio to accommodate around 70-80 students, donated by the V.B. Polytechnic Alumni Association. The advanced technological learning tool would provide, particularly in the pandemic and future, resources for teachers and students to help understand the concepts better and achieve academic excellence.

Parents Teachers Meeting: To discuss the students' performance online, all the departments conducted a Parents-Teachers meeting. Most parents appreciated the meeting; they had several queries regarding online classes, examinations, college reopening, etc. The parent's suggestions for improvement got incorporated immediately.

Activities of National Service Scheme (N.S.S.): The following activities got conducted by the National Service Scheme Unit in the session 2020-21:

- **Plantation Drive:** A plantation drive on the campus had the objective to make it greener and maintain environmental balance. 25 neem and 15 bottle palm saplings were planted in the process by the Polytechnic and the Alumni Association.
- **Sanitization and Food Packet Distribution:** Many volunteers sanitized neighborhood colonies with disinfectants and distributed food packets to those in need.
- **Awareness Program & Mask Distribution:** Udaipur Syphon Circle's awareness program for daily wagers explained to them the importance of following the COVID safety protocols like wearing masks, maintaining social distance and regular washing of hands. Posters with COVID appropriate behaviour got pasted by the volunteers, and participants got masks.
- **Webinar on "Ayu Samvad: My Health My Responsibility:** Polytechnic, in association with Madan Mohan Malviya Govt Ayurved College, organized a webinar on Ayurveda on for COVID "Ayu Samvad: My Health My Responsibility". Senior Professors from the college threw light on Ayurveda and COVID, prophylactic measures, yoga, immunity-boosting measures for self-care, general criteria, diet guidelines for COVID management, lifestyle modifications, post COVID management etc.

Scholarships Awarded to Needy Students: Polytechnic students and their families during the pandemic faced intense financial uncertainty. Parents of many students lost their jobs or their income

depleted. Polytechnic helped many of these students financially, providing them fees. It led to rising of student's anxiety.

An internal committee of Departmental Head and faculty members identified needy students for scholarships. Vidya Bhawan Society General Scholarship got awarded to 34 students, Shiksha Shakti Foundation Scholarship to 15 students, Department of Social Welfare, Minority Board, V.B. Alumni and Pragati & Saksham Scholarship AICTE to 10 students.

Skill Development Programs: The Polytechnic conducted various non-formal skill development training programs for rural youth, women, school dropouts and other weaker sections and underprivileged groups of the society through the Community Development through Polytechnic Scheme. The report of the activities is as follows:

The Sewing Training Program at Khanjipeer Training Centre ended in October, wherein 29 women received training.

In the lockdown period, two awareness programs on COVID 19 provided Ayurvedic Concoction and masks at Udaipur Syphon Circle and Khanjipeer.

According to the information from the previous session, 27 beneficiaries got informal employment sector, and 46 beneficiaries started their own business. No training programs got conducted in the session 2020-21 due to the pandemic.

Challenges: The COVID-19 pandemic radically transformed the world, with technical education as no exception. The future of Engineering Education has rarely seemed so uncertain than now.

The transition to online teaching is challenging. The issues like expensive data, poor network, and varying number of students in the online class, the uncertainty of examination, reopening of the institute are continuously posing challenges in front of the teachers.

Student's enrolment is on the downside. The last few years of engineering and technology education in India were far from encouraging. A large percentage of graduate engineers found no employment. The students' placement worsened by the pandemic second wave. Currently, the Polytechnic cannot project any enrolment number, retention rates or confidence of physically opening campus soon.

All said the Polytechnic is making all effort to improve enrolment. A rigorous admission campaign using extensive digital platforms like Facebook, Instagram, whatsapp and the institute website. A huge database of 10th and 12th class students from RBSE and CBSE, government and private schools, led to contact students through the phone.

Congratulations

Passed Junior Engineer Written Exam (RSMSSB 2020)



Ranjeet Kumawat



Rahul Nagda



Nikul Solanki



Nalini Shrimali



Kushal Ahari



Deepak Khatik



Jitendra Nagda



Jitendra Meghwal



Jaydev Soni



Narendra Singh



Jyoti Patidar



Deepshikha Yadav



Chahat Goyal



Sandeep Suthar



Deepak Joshi

OUR MERITORIOUS STUDENTS 2020



LOKESH VYAS
8th Position CS



JAIDEEP MALI
5th Position CE



VARSHANG SHRIMALI
1st Position IT



LOKESH DANGI
3rd Position IT



Mh. FARHAN
2nd Position IT



ANKIT KUMAR
7th Position EE



DEEPESH KUMAWAT
2nd Position EE

ANNUAL REPORT

2021-22

Vidya Bhawan Polytechnic was established in 1956. It started with a Diploma in Rural and Sanitation Engineering, a course which was later renamed as Diploma in Civil Engineering. Over the years, the College added new courses. Currently, the College is one of the leading Polytechnics in northern India, affiliated with the All India Council for Technical Education and the Board of Technical Education, Rajasthan.

The Academic Year 2021-22

The College started in the midst of the second Covid wave. The government's mandatory covid guidelines allowed only 50% of students to attend campus classes. The rest had to participate online. Covid pandemic also led to shifting of exams dates. In a way it impacted the overall functioning of the institution.



A. College Admissions

Compared to other Polytechnics in Rajasthan, Vidya Bhawan Polytechnic attracted the largest number of students for new admissions. This year the College's strength went up from 396 to 461. Total two hundred thirteen students took admission in the college including first year and second year (through lateral entry) of Diploma and in first semester of Polymer Science and Rubber Technology course.

B. Academic Activities

Seminars and Expert Lectures

The College keep organising Seminars for its students to interact with experts and experienced people. It also organises workshops and training to help students improve their chances of getting the best placement. Experts from "Workmob", a consulting agency, conducted sessions on how to take interviews. In another session, an alumni, Mr Mukesh Janwa, worked to improve students' communication skills.

Industrial Visits

Industrial visits bridge the gap between the classroom and the actual practice. This year, the Electronics department students visited Ananta Hospital to learn about technology interface with medical intervention. Similarly, Polymer Science & Rubber Technology students visited the JK Tyre plant and Echon Industry to learn about floor management for manufacturing products, Polymer Science & Rubber Technology students visited Italica Lifestyle Ltd to learn about

managing waste to optimise productivity.

Projects

A project is another learning vertical after the classroom sessions, especially for the final year students. Effort gets made to persuade students to work around new technologies. The College divides students into small batches for working in a project mode. As a result, this year, most batches worked in developing unique products using technology to aid people to cope with various conditions, including maintaining safety at the workplace, assisting physically challenged people and increasing efficiency in production.

Results

Unlike last time—when students got promoted to the next level with internal assessment—this year the examination was organised by the Board. Four hundred and thirty two boys and twenty nine girls took the regular exam. Poor attendance and Covid-related disturbance led to poor results, with 48.76% passing the exam. Despite not-so-good results, some students made it to the merit list.

C. Other Important Events

Engineer's Day: On 15th September, the College as usual celebrated the Sir Vishvaishwarya's birthday. Programmes were organised to imbibe awareness in students on the need to choose techniques and technology that minimises damage to the environment. They did this by being part of the exhibition—Engineering for a Healthy Planet.

Yuva Utsav: The College celebrated this popular socio-cultural programme, on 2nd May 2022. Vidya Bhawan President and institution governing body members graced the occasion.

Alumni Association: Polytechnic Alumni Association is an active body of the institution—deeply engaged in promoting its alma mater. Apart from the annual meet, the association regularly organises activities related to its old boys. This year the old boys from the 1970, 1971, 1972, 1995, 1996 and 1997 batches were felicitated, along with students who made it to the merit list in the last two batches. This year, the association organised a function to facilitate its ex-Principal—Mr B.L. Jain. In his parting speech, Mr Jain reminded us how a good teacher goes with a craze to keep learning.

National Service Scheme (NSS): The National Service Scheme is a Central program for students to participate in community service programmes. The program curtain raised in October invited volunteers for registration, followed by a day's schedule for campus cleaning. Subsequently, the College organised a seven-day camp cycle campaign — "Ped Pahar Pani: Paryavaran Chetna Cycle Yatra" (Tree, mountain, water: Environment awareness) camp. The NSS volunteers created awareness for a better environment through a cycle rally. It planted trees in the schools that came

on the way, providing students with the opportunity to draw, make notes of existing biodiversity, and stage street plays. It conducted water impurities tests at various locations to make it a context for speaking to people.

Women's Day: Polytechnic celebrated women's day on 8th March 2022 by creating a context for participating female staff and students to share their experiences as a woman. Some of them made interesting observations. One female member talked about changing male attitude towards female colleagues for good. Some of the participating males too expressed their concern. The celebration ended by taking the pledge of supporting and helping at least one needy woman before next year's women's day.

Kavi Sammelan (Poetry Recitation): On 13th September 2021, Kavi Sammelan was organised in the memory of Mr Riaz Tehseen— ex-Vidya Bhawan President. He passed away on 12th August 2021. He loved poetry and was an amazing gentleman who served Vidya Bhawan for a long time. The event felicitated budding and senior writers of Udaipur in memory of Mr Tehseen. Participants recited some of Riaz sb's (as he was popularly known) poems and writings at the conference. Mr Ajay S. Mehta and Dr Jaidev Paneri graced the occasion with their presence.

Visitors: Facilitating stakeholders' visits is regular and adds value to the institution at various levels. This year, the list of important visitors is the following: Dr Palash from the Rubber Technology Department IIT Kharagpur; Mr Neeraj Jutshi, HR Head and Mr N. Krishnan, Technical Head for Balkrishna Tyres; Technical team of JK Tyres; Dr Sunil Jagasia, Chairman of Education Committee of Indian Rubber Institute, Rajasthan; Branch.

Scholarships: The Polytechnic offers a need-based scholarship to its students. This year Vidya Bhawan Society scholarships was given to 56 students whose family's income diminished significantly due to the pandemic. Similar donor support came from Pragati Scholarship for Girls, Swanath Scholarship, Shiksha Shakti Foundation Scholarship, Rajasthan Samaj Kalyan Post Matric Scholarship, and other miscellaneous donors. In total, this year, the College offered scholarships to 106 students.

Parent Teacher Meeting: Parents Teacher Meeting (PTM) is College's regular feature. This year, the focus of most meetings was academic performance and the impact of low attendance on the board results. The issue of a better result in future also got discussed, apart from other issues.

Campus Placement: Every year, many industries visit colleges for campus placement. The Internal Training and Placement Cell (T & P Cell) is important in inviting industries. This year, 41 students got campus placement from five visiting industries. Each visit gets carefully recorded to keep track of industrial requirements for the future.

D. Partnership and Collaboration

MOU with Geetanjali Institute of Technical Studies (GITS)

An MOU with Geetanjali Institute of Technical Studies has been signed to share educational resources. It creates a scope for mutually beneficial activities— skill development courses, training programs, workshops and seminars for building and enriching conceptual learning in B.Tech. and Polytechnic students and faculties of both the institutions.

Activities of Saraswati Mechatronics Centre

The College and Saraswati Singhal Foundation together run the Saraswati Mechatronics Training since 2019. It improves students' skills in Mechatronics, Automation and Advance Manufacturing. Taking this course adds to better employability possibilities for Polytechnic students. It is an exclusive training centre in this category. Bosch, the technical bellwether company, provides technical support to the programme.

This year the Centre had visitors from the Ministry of Micro, Small and Medium Enterprises (MSME) to explore SMC training for mining sector employees. Geetanjali Institute of Technical Studies (GITS) also sent a Team to examine training for its B. Tech students in Mechatronics. To promote Mechatronic and Polytechnic courses, the Centre organised an exhibition in RK Mall (Udaipur shopping mall)—Rojgar Mela— on 8th and 9th August 2021. It saw a footfall of around 600 students. In the same event, Vidya Bhawan Polytechnic got recognised as the "Best Skill Development College" of Udaipur. The Center organised three days of Workshops for ITI students to create interest in their mechatronics by discussing the basics of the course with 21 participants. Collaboration with Danish International Development Agency (DANIDA) Integrated Water Resources Management (IWRM) Project: Vidya Bhawan Polytechnic collaborated with multiple partners for research on the Integrated Water Resources Assessment of Upper Berach Basin (Char River), Udaipur. The project objective is to improve water availability through integrated water management in the Udaipur district. The project studies complex interactions between hydrological and human systems. This year the project organised many human interaction programs to create awareness of the issue among the locals. The Social Influencers Workshop in November 2021 consciously worked to increase local participation. Volunteers took a cycle rally 40 km along the Ayad river basin, organising many engaging activities on the way. In one project activity, four students got trained to assess an Ayad river condition by looking at data and analysing them. The project created an institute for citizen science in the Ahar catchment. Twenty-five institutions are part of the institute. One institute gets one catchment area to track the river's water, precipitation, and lake health.

Placement Drives



Orientation of Students before Placement Drive



Photo Gallery 2021-22

Students of Electronics Engineering observing Biomedical Instruments during Visit at Ananta Hospital



Ped Pahad Paani Paryavaran Chetana Nadi Cycle Yatra







आस्था को चुनौती मुश्किल ही नहीं नामुमकिन है...!

नंदी महाराज दूध पी रहे हैं। दोपहर में यह बात शुरू हुई और रात तक शिव मंदिरों में श्रद्धालुओं का तांता लगा रहा। कई लोगों को करीब 25 साल पहले गणपति बप्पा के दूध पीने का घटनाक्रम याद आ गया, तब भी पूरे देश में आस्था का ज्वार उमड़ पड़ा था। आस्था के इस सैलाब को चुनौती मुश्किल ही नहीं नामुमकिन है।

जी हां, ढाई दशक पहले भी गणपति बप्पा के दूध पीने के घटनाक्रम के बाद विज्ञानियों ने भौतिकी के सिद्धांत के जरिये घटनाक्रम को समझाया था, लेकिन जैसा कि भूलना मानव स्वभाव है, वह बातें भुला दी गईं। ऐसा नहीं है कि सभी लोगों ने आंख मूंदकर इस बात पर विश्वास किया। कुछ बुजुर्ग

महिलाएं जिन्होंने 25 साल पहले का मंजर भी देखा था और अब भी देख रही थीं, उन्होंने कहा कि दूध और जल रिसकर बह रहा है, उस पर भी ध्यान देना चाहिए। उस दिन 5 मार्च 2022 को शनिवार था और उदयपुर के शनि महाराज के मंदिर के बाहर बैठी एक बुजुर्ग महिला श्रद्धालु ने कहा कि वे भी गई थीं और नंदी महाराज को दूध अर्पित करते हुए नीचे गले पर जब हथेली रखी तो हथेली गीली हो गई। कई जगह प्रतिमा सफेद होने के कारण दूध का रिसना नजर नहीं आ रहा था और जल का रिसना तो काले और सफेद दोनों ही रंग की प्रतिमा पर नजर आना मुश्किल है।

विद्या भवन पॉलिटेक्निक कॉलेज के भौतिकी के प्राध्यापक हेमंत सालवी से चर्चा की। उन्होंने कहा कि आस्था को भौतिकी सिद्धांतों के साथ समझा जाए तो और भी बेहतर होगा। लगभग ढाई दशक पहले 21 सितम्बर 1995 में गणेश प्रतिमाओं द्वारा दूध पीने की बात फैली थी।

सालवी बताते हैं कि इसे हम भौतिक विज्ञान में कैपिलरी राइजिंग (केशकीय विधि) या केशकीय गति भी कहते हैं। इस विधि से पानी किसी छोटे-छोटे छिद्र से अंदर की ओर खिंच जाता है। नंदी की मूर्ति मार्बल की बनी होती है, इसमें कई छेद होते हैं, पानी से भरा चम्मच इन वैक्यूम चवतने (छिद्र) के पास लाया जाता है तो ये छिद्र पानी को अंदर सोख लेते हैं। जैसे दीपक में तेल धीरे-धीरे बाती में ऊपर की ओर चढ़ता है, पौधों को पानी जड़ों में दिया जाता है और इसी सिद्धांत से पानी पत्तियों तक पहुंच जाता है। दीपक की बाती व पौधों की जड़े कैपिलरी की तरह कार्य करती हैं।

यहां भौतिकी का एक और सिद्धांत पृष्ठ तनाव भी कार्य करता है। पृष्ठ तनाव हर तरल का गुण होता है। पृष्ठ तनाव के कारण तरल की बूंदें आपस में चिपक कर एक साथ रहना चाहती हैं, जैसे पानी की छोटी बूंद गोलाकार होती है। पानी के अणुओं में ससंजक बल लगता है (समान पदार्थों में), पर ससंजक बल पानी में बहुत कम होता है। पारे में ससंजक बल ज्यादा होता है। पानी में ससंजक बल कम होने के कारण पानी दूसरे पदार्थ के साथ चिपकता है व मार्बल के पास लाया जाता है तो पानी उस मार्बल की बनी मूर्तियों के सूक्ष्म छिद्रों में चिपककर आसानी से मार्बल में चढ़ जाता है। इसे यूं भी समझ सकते हैं जैसे कोई एंटीसेप्टिक घाव पर आसानी से फैल जाता है। एंटीसेप्टिक व सर्फ के पानी का पृष्ठ तनाव कम होता है। ये आसानी से आगे की ओर गति करते हैं।

सालवी बताते हैं कि इस तरह की घटना में मौसम का भी बड़ा योगदान होता है। अभी के मौसम में तापमान बढ़ने लगा है। वायुमंडलीय दबाव भी बढ़ने लगा है। वायुमंडलीय दबाव वातावरण में ज्यादा और मार्बल की मूर्ति में कम होने से पानी अधिक दबाव से कम दबाव की तरफ बहता है, इसी कारण पानी आसानी से छोटे-छोटे छिद्रों में चढ़ता नजर आता है। ये तीनों कारण जब एक साथ होते हैं तब मार्बल की बनी मूर्ति पानी या दूध पीती नजर आती है। हालांकि, कुछ ही देर में द्रव की मात्रा ज्यादा होते ही वह रिसना भी शुरू कर देता है, क्योंकि छिद्रों में उतना ही द्रव समाहित हो सकता है जितनी वहां जगह है।

वैज्ञानिक कारण के साथ इस तरह की घटनाओं से मनोवैज्ञानिक प्रभाव को भी अलग नहीं रखा जा सकता। हमारे आस्था स्थल आत्मिक शांति के केन्द्र माने जाते हैं। व्यक्ति की आस्था जहां होती है, वहां पर वह सुकून महसूस करता है। जीवन की परेशानियों को लेकर व्यक्ति इन्हीं आस्था स्थलों पर समाधान की उम्मीद लेकर पहुंचता है। ऐसे में जब उसे इस तरह का घटनाक्रम दिखाई देता है तो उसका विश्वास और दृढ़ होता है और उसका आत्मिक बल बढ़ता है। व्यक्ति का आत्मिक बल मजबूत हो तो वह किसी भी मुसीबत का सामना करने के लिए स्वतः स्वयं को तैयार कर लेता है।

ऐसे में चाहे वैज्ञानिक कारण मानें या मनोवैज्ञानिक, आस्था के इस जाना उचित माना जाना चाहिए।

- हेमन्त, व्याख्याता, भौतिक विज्ञान



VIDYA BHAWAN POLYTECHNIC COLLEGE, UDAIPUR (RAJ.)
Department of Civil Engineering (Batch 2021-22)

Chair (L to R) :

Ganesh Dangi (Peon), Er. Girish Vaishnav (Lecturer), Er. Chandresh Arora (Lecturer),
Dr. Anil Mehta (Principal), Er. Jay Prakash Shrimali (H.O.D.),
Er. Bheru Lal Prajapat (Instructor), Er. Manisha Sharma (Instructor),
Sonu Heerawat (Lecturer).

1st Row (L to R):

Aman Pratap, Lokesh Gameti, Moiz Udaipurwala, Raj Patwa, Pragya Parihar,
Vidhi Parihar, Chayan Trivedi, Jeevan Meghwal, Lakshyaraj Singh Rathore, Kushal Suthar.

2nd Row (L to R):

Prateek Sharma, Himanshu Joshi, Shailendra Vyas, Sujal Khatri, Pawan Gadri,
Harshil Sen, Abbas Kota, Somya Sharma, Soham Sharma, Jatin Mochi.

3rd Row (L to R):

Rahul Prajapat, Abhinav Kumawat, Rahul Sharma, Kalp Rawal, Raju Dangi,
Devendra Singh, Harshit Vaishnav.



VIDYA BHAWAN POLYTECHNIC COLLEGE, UDAIPUR (RAJ.)
Department of Computer Science & Engineering (Batch 2021-22)

Chair (L to R) :

Abhishek Mogra(Lecturer), Hemant Menaria(Lecturer), Priyanka Jain(Lecturer),
Jay Sharma(Lecturer), Dr.Anil Mehta(Principal), Devendra Purohit (H.O.D.),
Bhuwan Ameta(Lecturer), Pritesh Nagar(Lecturer)

1st Row (L to R):

Jay Singh(Peon), Saksham Vaishnav, Dhairya Tripathi, Dushyant Salvi,
Shivani Chauhan, Vipra Mehta, Perna Kunwar, Gayatri Kumawat, Usha Prajapat,
Yash Jalora, Garvit Vaishnav, Romanshu Dave

2nd Row (L to R):

Kartik Joshi, Mrinal Malvi, Naman Jain, Harshul Vyas, Ritik Joshi
Harsh Prajapat, Hareem Raza, Himanshu Dadhich, Jitendra Kumar,
Kushal Cheeta, Kashif Ansari



VIDYA BHAWAN POLYTECHNIC COLLEGE, UDAIPUR (RAJ.)
Department of Electrical Engineering (Batch 2021-22)

Chair (L to R) :

Narayan Lal Dangi (Peon), Neeraj Vaishnav (Technician), Kamlesh Kumawat (Technician), Ramesh Chandra Kumhar (Lecturer), Dr. Anil Mehta (Principal), Nitin Sanadhya (H.O.D.), Pankaj Kumar Singh ((Lecturer), Darshana Sharma ((Lecturer).

1st Row (L to R):

Bhavesh Kr. Jain, Asrar Ahmed, Mohseen Khan, Hemant Ameta, Khushi Chouhan, Nikita Koli, Kapil Suthar, Subhash Salvi, Bhavesh Patidar, Rahul Krishan Madawat, Rajat Sharma, Tulsiram Prajapat, Hardik Upadhay.

2nd Row (L to R):

Satish Naydu, Rohit Sharma, Bhavesh Menaria, Akshay Sharma, Gopilal Rebari, Sameer Suthar, Jayant Vaishnav, Devendra Singh Jhala, Ayush Saraswat, Harshit Ameta, Omprakash Meena.

3rd Row (L to R):

Harshit Lohar, Rajveer Singh Rathore, Bhupendra Singh, Suraj Jat, BharatPaliwal, Ronak Rawal, Tarun Kumawat, Faraz Hussain, Adhish Sharma, Parwat Singh, Shakti Singh Jhala, Yogendra Choubisa, Chirag Tiwari.



VIDYA BHAWAN POLYTECHNIC COLLEGE, UDAIPUR (RAJ.)
Department of Electronics Engineering (Batch 2021-22)

Chair (L to R) :

Kuldeep Regar (Peon), Er. Amit Kushwaha (Lecturer), Er. Mohd. Sikander Sheikh (Lecturer),
Dr. Anil Mehta (Principal), Dr. Deepak Gupta (H.O.D.), Er. Radha Kishan Menaria (Lecturer),
Er. Sushma Trivedi (Lecturer), Meenakshi Menaria (Technician).

1st Row (L to R):

Aftab, Mahesh Gharu, Sunny Nagda, Divishtha Kumawat,
Khushwant Singh Sarangdevot, Pawan Kumar Vaishnav.



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SARASWATI MECHATRONICS CENTRE



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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**



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