

TAPI DIPLOMA ENGINEERING COLLEGE



(MANAGED BY SHREE TAPI BRAHMACHARYASHRAM SABHA TRUST, SURAT)
APPROVED BY AICTE, NEW DELHI & AFFILIATED TO GTU, AHMEDABAD.
(NBA ACCREDITED)



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VOLUME-1

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Quarterly news letter

ISSUE FROM JAN-24 TO MARCH-24

VISION



- To build sound engineers with an orra of human values who are determined for social betterment.

MISSION



- To develop the Tapi Diploma Engineering College into a "Center of Excellence" in the field of Technical Education by:
- Providing the state of art laboratories & institutional facilities.
- Encuraging students to study beyond the curriclum.
- Creating an Environment for al round integrated personality development of students.

QUALITY POLICY

- The knowledge airedted system & excellent teaching faculty of the institute, develop a learning environment for all and faster continues improvement in the qulity of academic work.
- Also recognize and improve the skill of student through various curricular & co-curricular activities.



Goverining Body

Dr. Bankim bhai R. Thakar

President

Dr. Vajubhai G. Mavani

Vice President

Shri Dineshbhai R. Navadiya

Treasurer

Shri Hemantbhai J. Topiwala

Secretary

Dr. Kanubhai G. Mavani

Trustee

Shri Jivrajbhai P. Surani

Trustee

Shri Babubhai V. Kotadiya

Gen. Manager

From The Desk of Principal



Dr. Yogesh S. Choupare

Congratulations to all 4th sem students for their excellent results in 3rd sem GTU examination. Tapi Diploma Engineering College has secured 3rd rank in GTU 3rd sem results and also congratulations to all 6 semester students who have placed in various Industries during the campus interview. Tapi Diploma Engineering College also provides opportunity for all students to participate in the entrepreneurship and start up program arranged by Gujarat innovation & start-up centre at Surat which is under students starts up innovation policy. Student should have focused on New Era problems try and to find solution on the problems through the start-up. Government is very much supporting in this field as India need lots of start up to become a develop country in future many opportunities are opening up for India. Engineering to grab their opportunities. student has to work hard and should show the sincerity to address the problems & also change their mind set you all are very much fortunate that you are youth in such period which has maximum facility available which were never before on this planet wish you all the best for your future endeavour.

Thank you.

Dr. Y.S. Choupare

Principal, Tapi Diploma Engineering College, Surat.

Student Industry Visit (Automobile Department)



Student Industrial visit arranged for 6th-semester students of the Automobile Engineering Department on 21-03-2024 at Parth Auto Gas & Motors to understand the CNG kit installation and servicing procedure under the subject of Maintenance & Service I (4360201).



"Surat International Auto Expo 2024" visit arranged for 6th, 4th & 2nd semester students of the Automobile Engineering Department on 16-03-2024 at Surat International Exhibition and Convention Centre SARSANA for showcase latest developments in new cars, motorcycles, scooters, concept vehicles, commercial vehicles and advance automotive technology from top companies.



An industrial visit was arranged for 4th-semester students of the automobile engineering department on 21-03-2024 at "Parth Auto Gas & Motors" to understand the CNG kit installation and servicing procedure under the subject of recent trends in automobile (4340203).



Mr. V.R. Sabhaya (head of Automobile Department) visited President Motors Pvt. Ltd.-Mahindra, Kamrej Surat, on 2-3-2024 to understand the "servicing and maintenance of transmission, suspension and braking system of commercial vehicle."

Student Industry Visit (Chemical & Mechanical Department)



An Industrial Visit was arranged by Chemical Engineering Department for the student of 4th and 6th semester to understand Process and Equipments under the various subjects dated on 27th February, 2024 at Labdhi Agro Chem, Panoli.



An Industrial Visit was arranged by Chemical Engineering Department for the student of 4th and 6th semester to understand Process and Equipments under the various subjects dated on 27th February, 2024 at Vaikunth Chemicals Pvt. Ltd. at Panoli.



Industrial visit was arranged at J K Paper LTD., Songadh in which 34 final year students of Chemical Engineering and Mechanical Engineering along with Department Faculties, Principal Sir and General Manager of the STBS trust on 20/01/2024.

Student Industry Visit (Computer Department)



Computer Engineering Department arranged a visit at Balaji Wafers Private Limited for 6th semester students on Date: 18/03/2024. During visit, students gain knowledge about industry automation and also see the process of automation done using PLC-SCADA.

Expert lectures & Workshops (Chemical Department)



“An Expert Speech” was arranged by Chemical Engineering Department for the student of 4th semester on the topic of Basic of Chemical Engineering Thermodynamics for Engg. Practice for Society dated on 21/02/2024

An Expert Speech” was arranged by Chemical Engineering Department for the student of 6th semester on the topic of Basic of Chemical Reaction Engineering for Engg. Practice for Society dated on 21/02/2024.



"An expert lecture on "Design Thinking, Critical thinking and Innovation Design" was organized on 23/02/2024 by Chemical Engineering Department of Tapi Diploma Engineering College, Surat for the student of 6th semester. The session addressed by Mr. Bhautik H. Gabani."

Expert lectures & Workshops (Civil & Mechanical Department)



An Awareness seminar is conducted for 6th semester Civil engineering students for DDCET exam for D to D admission dated 19/3/2024 by Mr. Hiten .K. Kheni and Mr. Karm.V.Balar.

One day workshop and competition was organized by Dr. C.R. Sanghani and Mr.D. C. Jayani for 4th and 6th semester students of Mechanical Engineering Department on the topic of "3D Modeling using Solidworks". In this workshop, expert from Sopan Institute of Engineering & Design, Surat explained about how to prepare 3D models, assembly and drawing sheet in Solidworks software. At the end of workshop, winners of competition were encouraged by certificates and cash prizes.



Expert lectures & Workshops (Computer Department)



An Expert Lecture was arranged on "Artificial Intelligence" for 6th semester students of Computer department on date 02/02/2024 by Shivaay Software LLP, Surat.



An Expert Lecture was arranged on "Automation Industry with IOT" for 6th Semester students of Computer Engineering Department on date 12/02/2024 by Mr. Himanshu Rakholiya Center Manager, CDIAC, Surat.



An Expert Lecture was arranged on "Mongodb" for 6th Semester students of Computer Engineering Department on date 15/02/2024 by Mr. Darshan Chauhan, CEO of Durvasa Infotech. Surat.



An Expert Lecture was arranged on "Cassandra" for 6th Semester students of Computer Engineering Department on date 29/02/2024 by Mr. Parin Patel, CO- Founder and Manager Bizott Pvt. Ltd., Surat.

Expert lectures & Workshops (Information Technology Department)



An Expert Session on a topic of "Cyber Security Careers" was conducted by Mr. Ajay Bhayani, Director of Ambisure for Final Year Students of IT Department to get insights that how in different industries cyber security plays a role on 13/03/2024 under Cyber Security and Digital Forensic (4361601) Subject.



An Expert Lecture on "Introduction of Machine Learning and its Application" was conducted by Mr. Ankur Jagani (CEO of Shivaay Software LLC.) for 4th semester Students of IT Department under Subject of Fundamentals of Machine Learning arranged by Ms.Ruchita H.Devaliya on 20/02/2024.



An Expert Lecture on "Blockchain Technology & Bitcoin Cryptocurrency" was conducted by Dr.Anshuman Kalla (Professor, Computer Department -CGPIT,UKA Tarasadiya University) for Final year Students of IT Department under Subject of Foundation of Blockchain arranged by Mrs. Dipika K. Patel And Ms. Shreya G. Bhagwatkar on 16/03/2024.

Expert lectures & Workshops (Chemical Department)



A one day training program on the topic of "Alternative to single use plastics and application of recycled plastic-1" arranged by Chemical Engineering Department and sponsored by GEMI dated on 6th January, 2024 at Tapi Diploma Engineering College.

Training & MOU

(Electrical, IT, & Computer Department)



Training on "Application of AUTOCAD 2D in electrical engineering "was conducted by KHODIYAR CAD Center (1) Pvt. Ltd, Surat for the students of 6th semester electrical engineering department.

A Seminar was arranged on "Industrial Automation 4.0" for 6th semester IT and Computer Students on date 19/2/2024. Seminar was conducted by PG automation. The main objective of the seminar was to remove gap between Industry and academia. Experts from PG automation brief students about skill based trainings which includes concepts of IOT, AI, PLC, SCADA, HMI etc.



Training & MOU (Chemical Department)



On 29/01/2024 MOU were signed between Chemical Engineering Department of Tapi Diploma Engineering College and Shakti Distilleries Pvt. Ltd., Surat for contribution of effective learning process.



On 23/02/2024 MOU were signed between Chemical Engineering Department of Tapi Diploma Engineering College and H. P. Pharma, Panoli for contribution of effective learning process.



MOU was signed by Chemical Engineering Department of Tapi Diploma Engineering College with Labdhi Agro Chem, Panoli for contribution of effective learning process dated on 27/02/2024



MOU was signed between Chemical Engineering Department of Tapi Diploma Engineering College and Vaikunth Chemicals Pvt. Ltd., Panoli for contribution of effective learning process dated on 27/02/2024.

Co-Curricular Activity



“Session on Achieving Problem-Solution Fit & Product-Market Fit “organized by the Institution’s Innovation Council (IIC) for the students of 6th semester on the topic of on 31/01/2024.



An IIC Committee has organized a field visit at "Association for Harnessing Innovation and Entrepreneurship (ASHINE), SVNIT, Surat" for 6th and 4 semester Computer, IT and Automobile Department Students on date 22/2/2024.



A session on "Innovation & Entrepreneurship Outreach Program" was organised on 23/02/2024 by Institution's Innovation Council of Tapi Diploma Engineering College, Surat for M.N.J Patel Madhymik Vidhyalay, Surat. The session was addressed by Mr. S.S. Patil (Lecturer in Mechanical Engineering)



"A workshop on "Design Thinking, Critical thinking and Innovation Design" was organized on 24/02/2024 by IIC of Tapi Diploma Engineering College, Surat for the student of 4th and 6th semester of Chemical Department. The session addressed by Mr. Bhautik H. Gabani and coordinated by Mrs. Mital G. Pathak (I/c HOD, Chemical Engineering Department)

Co-Curricular Activity



On the Occasion of "International Women's Day" a Seminar was Organized by Institution's Innovation Council for All Students on Topic of "Women Empowerment" by CAPT MEERA SIDDHARTHA DAVE INDIAN ARMY OFFICER (RETD) on dated 06/03/2024.

On the occasion of Shree Ram Mandir Pran Pratishtha Mahotsav 'Rangoli Competition', 'Suvichar Competition and Painting Competition' were arranged dated on 22/01/2024 for all students of TDEC, Surat. As a jury member Mrs. R. Y. Desai, Mrs. M. V. Vadiwala and Mrs. A.H. Kalariya were invited.



Extra Co-Curricular Activity



On 06/02/2024 the Black & White theme day was organised along with sport day by the extra co-curricular committee.



On 07/02/2024 the Group Day, cap & Goggles theme day was organised along with sport day by the extra co-curricular committee.



On 08/02/2024 the twin & trio theme day was organised along with sport day by the extra co-curricular committee.



On 09/02/2024 the traditional theme day was organised along with sport day by the extra co-curricular committee.

Extra Co-Curricular Activity



On occasion of National Voter's Day Voter Awareness Program was arranged by extra co-curricular committee dated on 14/03/2024 for 6th semester students of all branch. As a Speaker Mr. Rajesh Mangukiya was invited.

A "MENTAL HEALTH AWARENESS" program was organized by Extra Co-Curricular Committee for all branch students of TDEC, Surat on the occasion of "WORLD HEALTH DAY" in the presence of Dr. Khanjan Lathiya Sir, who is Naturopathic Doctor, on 27/03/2024.



JUNG 2024

(Sport 1st & 2nd day)



On the 05/02/2024 the inauguration was done by the honourable trusty & principles. The different types of games were played by them like carrom, chess, table tennis, cricket & volley ball and the sport day began.

On 06/02/2024 the lady's faculty & girls played different games like musical chair, badminton, kho – kho which was arranged by extra co-curricular committee & that same day many games are played by absorbing the schedule of sports which was given by college like cricket, Kabadi, volleyball, table tennis, chess, carrom.



JUNG 2024

(Sport 3rd, 4th & 5th day)



On the day 07/02/2024 the games like Carrom, table tennis & volleyball are played by students & respected faculty.

On the day 08/02/2024 the final of sports was arranged through college by noticing the scheduled the games in finals like Carrom, Chess, Kabadi etc. And the semi-final of Kabadi, Volleyball & Cricket were held.



On the final & last day 09/02/2024 the games played like Kabadi, Volleyball & Cricket were held and the trophies were also given on that day to the winners by our respected principal, honourable trusty & HODs.

Training and Placement



A Career guidance seminar on "Overseas Education" was conducted by Ms. Archana Khatri of National Group, Surat for final year students on 12/01/2024.

Online written test and personal interview conducted under campus placement drive of ARCELLORMITTAL NIPPON STEEL INDIA, HAZIRA for final year Chemical, Civil, Electrical and Mechanical engineering students on 27/02/2024, 29/02/2024 & 01/03/2024.



A campus placement drive of ARCELORMITTAL DESIGN & ENGINEERING CENTER (P) LTD., HAZIRA was conducted for final year (2024 batch) Mechanical, Civil, Electrical & Chemical Engineering students of Tapi Diploma Engineering College, Surat on 13/03/2024.



Training and Placement (Chemical Department)

FOR THE SELECTION IN
ARCELORMITTAL NIPPON STEEL INDIA,
HAZIRA



SAIYAD NURULAEN M.
(CHEMICAL DEPT.)



AMBALIYA MO. OWAISH A.
(CHEMICAL DEPT.)

The following students of 6th Semester are successfully placed in Arcelormittal Nippon Steel India Hazira Congratulations to the students.

The following students of 6th Semester are successfully placed in UPL Limited, Ankleshwar Congratulations to the students.

FOR THE SELECTION IN
UPL LIMITED, ANKLESWAR



PATEL JAIVAL K.
(CHEMICAL DEPT.)



DHANANI PRINCE R.
(CHEMICAL DEPT.)



PARMAR UTSAV A.
(CHEMICAL DEPT.)



PARMAR GAURAV N.
(CHEMICAL DEPT.)



RAJAYAGURU VEDANT
(CHEMICAL DEPT.)



RAMANUJ KASHYAP S.
(CHEMICAL DEPT.)



GUPTA ABHAY S
(CHEMICAL DEPT.)

FOR THE SELECTION IN
SHAKTI DISTILLARY PVT. LTD.



SINGH ANISH R.
(CHEMICAL DEPT.)

The following student of 6th Semester are successfully placed in Shakti Distillary PVT LTD, Sachin Congratulations to the students.

Training and Placement

FOR THE SELECTION IN
ARCELOR MITTAL NIPPON STEEL, HAZIRA



ZADAFIYA YUG M.



KHICHADIYA MAITRI G.

The following students of 6th Semester are successfully placed in Arcelormittal Nippon Steel India Hazira Congratulations to the students.

The following students of 6th Semester are successfully placed in Arcelormittal Nippon Steel India Hazira Congratulations to the students.

ARCELORMITTAL NIPPON STEEL INDIA



PARMAR KARAN CHAMPALAL
(MECHANICAL ENGINEERING)



GODHANI DEEP BHUPATBHAI
(MECHANICAL ENGINEERING)



LUHAR BHASKAR KISHORBHAI
(MECHANICAL ENGINEERING)



TATA
MOTORS



PATEL RAJVEER



BUDHDEO PRATHAM



MANGUKIYA DARSH



RAIYANI HEMAL

Congratulations!

The following students of 6th Semester are successfully placed in Tata Motors, Sanand (Electric Car Plant) as DET Congratulations to the students.

Other Activities (Prize distribution)



Prize Distribution Function arranged on 05/03/2024 in which the prizes were given to the winners who performed great in academics and the competition which gender championship club, extra co-curricular committee and to the student achievement.

Other Activities (Articles)

Life of Chemical engineer

In the realm where atoms dance and molecules
sway, Chemical engineers chart their intricate way.
Through phases and flows, they navigate with care,
In the grand theatre of transport, they dare.

In **transport phenomena**, where gradients unfold,
From diffusion to convection, their stories are told.
Through membranes and boundaries, they traverse,
Balancing fluxes, their skills diverse.

Thermodynamics whispers its laws profound,
In heat and in work, equilibrium is found.
Entropy's dance, a delicate balance to keep,
In the realm of energy, where secrets sleep.

Process design, a symphony of art and math,
From concept to reality, forging a path.
Unit operations harmonize in design,
Efficiency and yield, their ultimate sign.

Safety and environment, paramount concern,
In the alchemy of progress, lessons to learn.
From hazards identified to mitigation's grace,
Their vigilance ensures a safer space.

Chemical kinetics, the pace of reaction,
In molecular chaos, seeking satisfaction.
From rates to mechanisms, their insights glean,
The heartbeat of transformation, unseen.

Process control, where signals reign supreme,
In the dance of variables, a precise scheme.
Feedback and feedforward, orchestrating the play,
In the realm of stability, they hold sway.

Reaction engineering, where molecules collide,
In the cauldron of chemistry, transformations abide.
From reactors to catalysts, their domain extends,
Crafting pathways where chemistry transcends.

In this tapestry woven with atoms and bonds,
Chemical engineers ply their skills beyond.
From phases to kinetics, they unravel the tale,
In the grand saga of chemistry, they prevail.

Written by
Mital G. Pathak
I/C HOD, Chemical

Other Activities

(Articles)

Chemistry – The Secret Of Living

As a science student, in my study life – Biology, Mathematics & Chemistry were my favorite subjects. But as well as my study growing on, my interest moves towards chemistry more and more.

I found that chemistry is not just a subject. The concepts of chemistry teach us many more besides content. The interesting thing about this subject I much love that- “Learning living with learning Chemistry”. And here I am going to share some secrets of living using the concepts of chemistry.

- 1) Periodic table (the lesson to adjust):** There are almost 118 elements & they each have some special space according to their group but they all are still sitting together very nicely.
 - 2) Noble gases (always stable):** All elements like to be noble gas while making compound to get stable and control reactivity.
 - 3) Equations & Reactions (balancing is the key):** A complete chemical equation has same no. of elements in both sides' reactants as well as products and without it any reaction cannot be complete.
 - 4) Hydrogen (self-sufficient):** The only element which is capable of making bond with alkali metals (contains 1 valance electron) and group 17 elements (like as halogens contain 7 valance electrons). Though both are totally different in nature, hydrogen is capable of forming molecules with both of them.
 - 5) Oxygen:** Nobody can live without it.
 - 6) Covalent bond:** Sharing property to make compound.
 - 7) H₂O:** Applicable in any type of nature.
 - 8) Alkali metals:** High reactivity is harmful.
 - 9) Helium:** Lighter, non-flammable, no colour and noble
 - 10) Complexes:** Give beautiful colours to solution.
 - 11) Equilibrium:** Making balance after even reaction is complete
 - 12) Buffer Solutions:** Do not change their property even after addition of any subst.
- And last but not the list,
- 13) Carbon:** All in one.... Capacity of making number of compounds. The origin of life. Other Ex: Diamond - the toughest but everybody loves it.
Graphite – very delicate but beginning of future of everyone...
And there are many more to write....
Really, the lessons are endless taught by chemistry...
At last I will complete my article with one of my favourite & beautiful lines-

“The beauty of chemistry is that we can design our own molecular world”

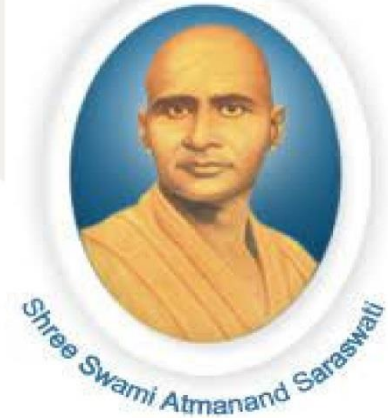
Written by
Mrs Vaishali N Joshi

Founder Of Trust

Newsletter Committee

Dr. Y.S. Choupare

Principal



Faculty member

Mrs. Mital G. Pathak

**HOD , CHEMICAL
DEPARTMENT**

Students list

Trivedi Dharmik V.

**CHEMICAL
DEPARTMENT**

Gabani Shrey V.

**CHEMICAL
DEPARTMENT**

Shiyani Krushil N.

**CHEMICAL
DEPARTMENT**

Patel Krish M.

**CHEMICAL
DEPARTMENT**

Patra Swaranlata

**CHEMICAL
DEPARTMENT**

Gayakawad Jayesh G.

**CHEMICAL
DEPARTMENT**

Polra Nihar G.

**CHEMICAL
DEPARTMENT**

Gohil Akshay A.

**CHEMICAL
DEPARTMENT**



Tapi Diploma Engineering College

Shree Swami Atmanand Saraswati Vidya Sankul, Kapodra, Varachha Road, Surat - 395 006.