# GEC DAHOD News Letter 2021-2022

Volume-5, Issue-2

# Government Engineering College **Dahod**

GEC, Dahod is approved by "All India Council for Technical Education (AICTE), New Delhi" and affiliated with "Gujarat Technological University (GTU)", Ahmedabad, Higher and Technical Education, Gujarat State



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#### **Advisors**

Dr. D.R.Shah
Dr. P.M. Baria
Prof. J.I. Patel
Prof. V.J. Patel
Prof. A.D. Joshi
Prof. A.N. Parmar
Prof. S.M. Vaishnay

#### **Editorial Team**

To, \_\_

Dr. D.B. Jani (Editor)
Dr. N.S. Mehta (Member)
Prof. I. A. Shaikh (Member)
Prof. S. Y. Bhimla (Member)
Mr. Kalyan Pandey (Student)
Mr. Umang Pawar (Student)

#### FROM THE DESK OF THE PRINCIPAL

Department of mechanical engineering of the institute gets NBA accreditation for next three years is one of remarkable achievement for the institute. I heartily congratulate the Institute's NBA team and Mechanical engineering department both for achieving this success. We are also thankful to all stake holders for possible support for the NBA visit. This is happen because of the special emphasis is on implementing Outcome Based Education (OBE) and Experiential Learning environment in the institute. The college continuously focus on academic activities which accelerate the help to students for gaining excellent theoretical and practical knowledge with required level of skill. We are constantly reviewing our setup to update and improve while making sure that students gain thinking skills, analytical frameworks, entrepreneurial skills, interpersonal and communication skills.

BOOK POST	

	Dr. P.B. Tailor
/c	Principal, GEC, Dahod

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# Institute vision

To be a value based engineering institute to disseminate globally acceptable education and to nurture research, innovation and entrepreneurship.

# **Institute Mission**

- 1 To provide quality education in engineering disciplines through creative balance of academic and extra-curricular activities.
- 2 To provide learning environment for innovation and entrepreneurship.
- 3 To disseminate ethical values, social values and sensitivity towards environmental issues

# **Institute Achievement**

Undergraduate Mechanical engineering program of the institute gets accredited by National Board of Accreditation (NBA) for the next three years.



# Training taken by the faculty

Sr. No.	Name of Faculty	Training taken	Duration
1	Dr. D.B. Jani	"Accreditation of diploma and degree engineering programmes" organized by NITTTR, Bhopal.  25-04 29-04	
2	Dr. D.B. Jani	"Outcome based assessment" organized by NITTTR, Bhopal.	09-05-2022 to 13-05-2022
3	Dr. B.M. Parmar	One week STTP (online) on "Simulation Techniques in Applied Science" organized by NITTTR- Bhopal.	2021-2022
4	Dr. B.M. Parmar	Twelve week STTP (online) on "Communication Networks" organized by SWAYAM (MOOC).	2021-2022
5	Prof. S.N. Damor	Eight week STTP (online) on "Introduction to research" organized by SWAYAM (MOOC).	2021-2022
6	Prof. S.N. Damor	Twelve week STTP (online) on "Antennas" organized by SWAYAM (MOOC).	2021-2022
7	Prof. A.B. Pasaya	Four week STTP (online) on "Outcome Based Pedagogic Principles for Effective Teaching" organized by SWAYAM (MOOC).	2021-2022
8	Prof. B.K. Chavda	Eight week STTP (online) on "Toyota Production System" organized by SWAYAM (MOOC).	2021-2022
9	Prof. B.K. Chavda	Four week STTP (online) on "OUR Mathematical Sence" organized by SWAYAM (MOOC).	2021-2022
10	Prof. B.K. Chavda	Twelve week STTP (online) on "Fundamentals of Automotive systems" organized by SWAYAM (MOOC).	2021-2022
11	Prof. J.M. Patel	Twelve week STTP (online) on "Fundamentals of Automotive systems" organized by SWAYAM (MOOC).	2021-2022
12	Prof. D.K. Oza	"Simulation Techniques in Applied Science", organized online by NITTTR, Bhopal.	31-01-2022 to 04-02-2022
13	Prof S. M. Damodariya	"Induction phase-II training", organized online by NITTTR, Bhopal.	31-01-2022 to 11-02-2022
14	Prof. N.B. Kagra	"Roadmap for effective research using advanced techniques and tools"	14/2/2022 to 18/02/2022
15	Prof. N.B. Kagra	"Tools for Transportation Data Analysis and Modeling"	17/1/2022 to 21/1/2022

# Research publications by the faculty & Students

Sr. No.	Name of Faculty	Publication title	Journal/Book
1	Prof. M.Y. Patil	Design and Fabrication of Drill Jig using Additive Manufacturing Technology	International Journal of Advanced Research in Science, Communication and Technology, Volume 2, Issue-1, May 2022. ISSN No: 2581-9429.
2	Prof. J.M. Patel	The effects of different engine oils on friction co-efficient between piston ring and cylinder liner	3 <sup>rd</sup> National Conference on Thermal Fluid and Manufacturing Science – 2022, The C. K. Pithawala College of Engineering and Technology, Surat.
3	Dr. S. B. Dikshit	Numerical and Theoretical Prediction of SMD for Pressure Swirl Atomizer	3 <sup>rd</sup> National Conference on Thermal Fluid and Manufacturing Science – 2022, The C. K. Pithawala College of Engineering and Technology, Surat.
4	Shri J.B. Chauhan, Dr. D.B. Jani	Investigation on Cooling Rate of Different Fin Design of an I.C. Engine by use of CFD  International Journal of Advance Research in Science, Communication a Technology (IJARSCT), Vol. 2, Issue pp. 339-346.	
5	Shri A.S. Shukla Dr. Kiran Bhabhor	Investigation on Shell and Tube Heat Exchanger by Using CFD Research in Science, Communication a Technology (IJARSCT), Vol. 2, Issue pp. 239-250.	
6	Dr. Tandel, Y. K., Patel, J. B., Budde, S., Kumar, S., Solanki, C. H., & Patel, B. G.	Three-dimensional numerical analyses of pervious concrete column for soft soil improvement	CURRENT SCIENCE, 122(9), 1044. (SCI). 10.18520/cs/v122/i9/1044-1050.
7	R. Nakum Dr. K. B. Parikh	To evaluate the seismic response of a building having stiffness irregularity and plan irregularity with quintuple friction pendulum system	International journal for research in applied science and engineering technology, Vol. 10, Issue VI, June 2022, ISSN: 2321-9653. https://doi.org/10.22214/ijraset.2022.43707
8	K. K. Kotadia Dr. K. B. Parikh	Effect of material used for unfill wall and its shape on the seismic performance of RC frame	International journal for research in applied science and engineering technology, Vol. 10, Issue VI, June 2022, ISSN: 2321-9653. https://doi.org/10.22214/ijraset.2022.43791
9	S. A. Samasindhi Dr. K. B. Parikh	Effects of Tsunami forces on RC framed structure subjected to bracing and shear wall	International journal for research in applied science and engineering technology, Vol. 10, Issue VI, June 2022, ISSN: 2321-9653.
10	M. Patel Dr. K. B. Parikh	Computation of R factor for SMRF and OMRF frame using nonlinear time history analysis rechnology, Vol. 10, Issue VI, June 2022, ISSN: 2321-9653.	

# Achievement by the faculty and Students

- ❖ Dr. D.B. Jani, Associate professor, Mechanical Engineering Department has been invited as Keynote speaker and National Advisory Committee at "1\* International Conference on Sustainable Materials Manufacturing and Energy Technologies" Organized by Department of Mechanical Engineering, RKGIT Ghaziabad (UP)-201003, India during JUNE 24th to 25th 2022.
- ❖ Dr. D.B. Jani, Associate professor, Mechanical delivered expert talk on topic "Desiccant based dehumidification and innovative cooling system" at CHARUSAT University, Changa, Anand, Gujarat on 21-04-2022.
- ❖ Prof. Kiran Bhabhor, Assistant Professor, Mechanical Engineering Department, Government engineering Dahod has successfully completed his PhD at Gujarat Technological University, Ahmedabad on 10-06-2022.
- ❖ Dr. D B Jani has been invited as expert speaker at JAI SHRIRAM ENGINEERING COLLEGE, TIRUPPUR, Avinashipalayam, Tamil Nadu on topic "Humidification and Dehumidification Desalination" on 04-04-2022.
- ❖ Prof. Papil Gautam, Assistant Professor, Mechanical Engineering Department, Government engineering Dahod has successfully completed his PhD at Gujarat Technological University, Ahmedabad on 04-07-2022.
- ❖ Dr. D.B. Jani, Associate professor in mechanical engineering department has been invited as session chair and member of National Advisory Committee by International conference on "Innovations in science, hybrid materials and vibration analysis", IC-ISHVA 2022, 16-17 July 2022, Organized by Association of Masters of Engineering, Maharashtra, India.
- ❖ Prof. M.Y. Patil, Associate professor in mechanical engineering department has been invited to deliver an expert lecture on "Understanding NBA criteria 3 and 8" to the faculty members of GIDC, Degree Engineering College, Abrahma, Navsari.
- ❖ Prof. Yagnik Rathod, Assistant Professor, Computer Engineering Department, Government engineering Dahod has successfully completed his PhD at Gujarat Technological University, Ahmedabad AY 2021-22.
- ❖ Dr. K. B. Parikh, Associate professor in applied mechanics engineering department had been invited for the expert talk on "Enhancing entrepreneurship skills of tribal youth for civil engineering" at Government Polytechnic, Dahod on Dt. 10<sup>th</sup> January, 2022.
- ❖ Prof. M. A. Sheikh has delivered expert talk in workshop on "Shaping tribal youth for industry sector through technical competence" on 13<sup>th</sup> January, 2022 at Government polytechnic Dahod.

# Achievement by the faculty and Students

❖ Bhavya Taral Kumar Modhiya Completed NPTEL online 12 Week Certification Course on "Programming in JAVA" From January to April 2022.

This certificate is computer generated and can be verified by scanning the QR code given below.

Roll No: NPTEL22CS47S34390035

TO BHAVYA TARALKUMAR MODHIYA 79/1/24 AGRAWAL SOCIETY, MANDAV ROAD GUJARAT - 389151 PH. NO :9737052452



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:3

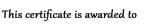
An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



#### Elite

# **NPTEL Online Certification**

(Funded by the MoE, Govt. of India)



#### **BHAVYA TARALKUMAR MODHIYA**

for successfully completing the course



with a consolidated score of 90

Online Assignments | 22.66/25 | Programming Exam | 25/25 | Proctored Exam | 42.67/50

Total number of candidates certified in this course: 4814



Prof. Jayanta Mukhopadhyay
Dean Outreach

Jan-Apr 2022 (12 week course) Prof. Debjani Chakraborty
Coordinator, NPTEL



Indian Institute of Technology Kharagpur



Roll No: NPTEL22CS47S34390035

To validate and check scores: https://nptel.ac.in/noc



❖ MOU signed between Arth Technology, Vadodara and Government Engineering College Dahod on 17-03-2022.



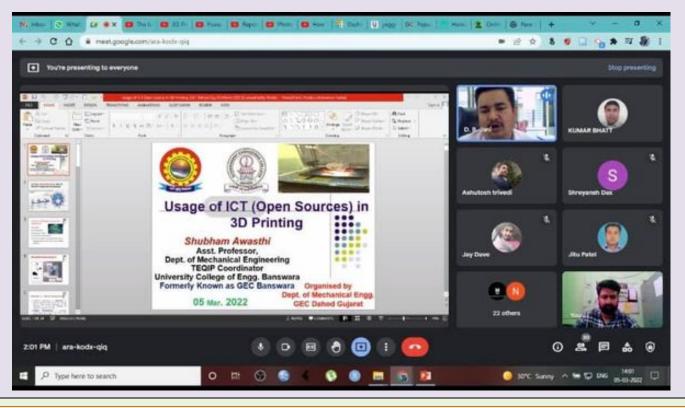
Mr. Mohsin J. Dadi has successfully completed his PhD at Gujarat Technological University (GTU) under supervision of Dr. D.B. Jani, Asso. Prof. Mechanical Engineering Department, GEC, Dahod.

Dr. Mahesh Chudasama (Asst. Prof. Mechanical Engg. Dept.) has received "Best Faculty Award" in International Scientist Awards on Engineering, Science and Medicine INSO-2022 Awards at Pondicherry on 29 & 30 April, 2022.

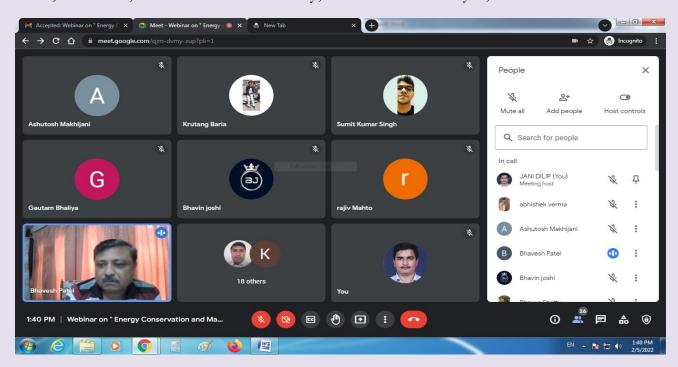


Department of Mechanical Engineering, Government Engineering College Dahod organized a webinar on "Usage of various tools in additive manufacturing (3-D printing)" by Prof. Shubham Awasthi, University College of Engineering, Banswara, on March 5, 2022.





Department of Mechanical Engineering, Government Engineering College Dahod organized a webinar on "Energy Management and Conservation" by Mr. Bhavesh Patel, Director, Vithallam Consultancy, Surat on February 2, 2022.



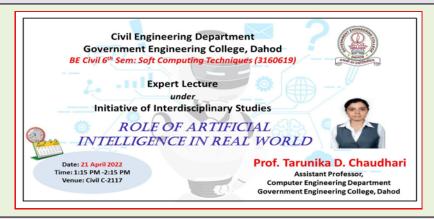
❖ Department of Mechanical Engineering, Government Engineering College Dahod organized a webinar on "Fundamentals of Piping Engineering" by Mr. Vastani Ashish kumar D., Director, Senior Engineer, L & T Technology Services, Baroda on February 19, 2022.



❖ Department of Civil Engineering, Government Engineering College Dahod organized a webinar on "Use of Nano Technology in Concrete" by Prof. Qasimali Barodawala, H.O.D. Civil, ITM University, Baroda on May 20, 2022.



❖ Department of Civil Engineering, Government Engineering College Dahod organized a webinar on "Role of Artificial Intelligence in Real World" by Prof. T.D. Chaudhari, Asst. Prof., Computer Engineering Dept., GEC, DAHOD on April 21, 2022.



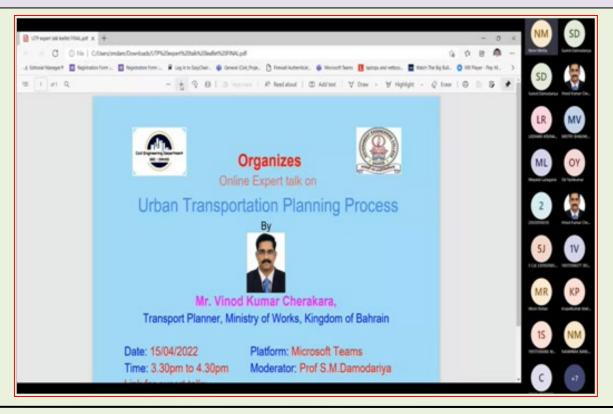
❖ Mr. Piyush Joshi, Retired XEN Irrigation Department having specialization in Water Management had delivered expert talk on the topic "CIVIL ENGINEERING PERSPECTIVE ON WATER MANAGEMENT" in Civil engineering department on 22nd April, 2022.coordinated by Dr. P.M. Baria.







Mr. Vivek kumar Cherakara, Transport planner, Kingdom of Bahrain had delivered an expert talk on the topic "Urban Transport planning process" in the Civil engineering department on 15th April, 2022, coordinated by Prof. S.M. Damodariya.



Prof. Ishak sheikh (Asst. Prof. Electrical Dept.) has been appreciated as Resource person cum mentor for the Dahod District administration initiatives "Eklavya prayas" for providing free and quality coaching for Engineering and Medical Entrance examination(IIT-JEE & NEET) during the year 2022 by the Dahod district administration.



Prof. M. A. Sheikh, Assistant Professor in Electrical engineering department is recognized as "Mendeley Advisor" on 11 March, 2022. He has taken 13 lectures on topic "Mendeley Research" and "Latex Research" during 05-03-2022 to 21-05-2022 for faculties and students.

Prof. M. A. Sheikh, Assistant Professor in Electrical engineering department received award "TechSaksham Ambassador 2022" from Microsoft.





- ❖ Prof. S.N. Damor, Assistant professor in E.C. Department has delivered Expert Lecture on the topic "Getting Started with Arduino' at Government Polytechnic Dahod.
- ❖ Prof. Ashish Pasaya of Electronics& Communication Engineering Department had been elevated to senior membership grade of IEEE on Dt. 26-06-2022.
- ❖ Prof Mohmadishak sheikh, Assistant professor in Electrical Department selected Techsaksham Ambassador for impacting more than 620 students on Cloud Computing.
- ❖ Prof. H.R. Patel, Assistant professor in E.C. Department has delivered Expert Lecture on the topic "Navi Dishaa Navu Falak" a career counselling seminar for the students studying in standard 9 to 12 on 2<sup>nd</sup> June 2022, career counselling seminar organized at BRC Bhavan, Fatepura, District Dahod.



The Department of Electronics & Communication Engineering organized an industrial visit for undergraduate students of sixth Semester at Railway Workshop, Dahod on 27/04/2022. They were accompanied by two visit coordinators Prof. S.N. Damor and Prof N.K. Saini. The Group was visited to the different sections by Mr. Mahesh Khakkar (Chief Supervisor).







- ♦ 39 Students from Government engineering college Dahod participated in the online Quiz on "Veer Savarkar" at Gujarat Technological University, Ahmedabad on 28th March 2022.
- ❖ Mr. Mrunal Shah, Academic head, Acumen, Vadodara had delivered expert talk on topic "Career opportunities for engineering students" in Computer engineering department on 25<sup>th</sup> March, 2022.
- ❖ Dr. Umesh Banodha, Academic head, Dr. A.P.J. Abdul Kalam UIT, Jhabua (M.P.) had delivered expert talk on topic "Recent trends and career in computer science" in Computer engineering department on 9<sup>th</sup> June, 2022.
- ❖ The Department of Electrical Engineering organized an industrial visit for undergraduate students at Active Engineers, Kathwada GIDC, Ahmedabad on 14<sup>th</sup> March 2022.



Government engineering college Dahod has organized a seminar on "Professional Career Guidance after Std. 12<sup>th</sup>" on 12<sup>th</sup> June, 2022 under ACPC.

# દાહોદમાં ધો.10-12 પછીના વ્યવસાયી કોર્સ

કમિટી ફોર પ્રોફેશનલ હિગ્રી કોર્પીસ અને એડમિશન કમિટી પ્રોસેસ,સીટની સંખ્યા, કોર પ્રોકેશનલ ડિપ્લોમા કોર્પીસ માર્ક્સની માર્ગદર્શન સેમિનારનું સરકારી

વ્યવસાયલક્ષી કારકિર્દી માટેના ટેક્નિકલ શિક્ષણ નિયામકના કોર્ય વિશે માહિતી, લાયકાત, માર્ગદર્શન હેઠળ એડમિશન ગવર્મેન્ટ, ગ્રાન્ટ ઈન ગવર્મેન્ટ, સેલ્ફ ફાઇ. સંસ્થામાં એડમિશન દ્વારા આયોજિત કરવામાં આવેલ માળખું, ઓનલાઇન એડમિશન માટેનું રેજીસ્ટ્રેશન કેવી કરવું,

- Sovernment engineering college Dahod has organized a blood donation camp under guidance of Dahod Indian Red Cross Society.
- Sovernment engineering college Dahod and Sport Authority of India organized one day water conservation policy education program for the youth of Dahod city on 04-03-2022.

# દાહોદ ઇન્ડિયન રેડક્રોસ સોસાયટી દ્વારા સરકારી એન્જિનિયરિંગ કોલેજમાં રક્તદાન શિબિર યોજાઇ



દાહોદ, દાહોદ ઇન્ડિયન રેડક્રોસ સોસાયટી જીલ્લા શાખા સંચાલિત ડો.મોહસીનભાઈ એસ. લેનવાલા વોલન્ટરી બ્લડ બેંક અને સરકારી એન્જીન્યરિંગ કોલેજ દાહોદના સંયુક્ત ઉપક્રમે શુક્રવારના રોજ કોલેજના પ્રોફેસર કિરણ ભાભોર અને NSSના પ્રોફેસર મનોજ સિહના માર્ગદર્શન હેઠળ રકતદાન શિબિર યોજી 40 યુનિટ બ્લુડ એકત્રિત કરાયું હતું.



ગોધરા-દાહોદ ભાસ્કર 05-03-2022

#### દાહોદમાં જળ જાગરણ અભિયાન અંતર્ગત યુવાનો સાથે એક દિવસનું જાગરૂકતા પ્રશિક્ષણ યોજાયું



દાહોદ. ભારત સરકારના યુવા કાર્યક્રમ અને ખેલ મંત્રાલય અંતર્ગત નેહરૂ યુવા કેન્દ્ર દાહોદ અને રાષ્ટ્રીય સેવા યોજના, સરકારી ઈજનેર કોલેજ દાહોદના સંયુક્ત ઉપક્રમે જળ જાગરણ અભિયાન અંતર્ગત યુવાનો સાથે એક દિવસનો જાગરૂકતા પ્રશિક્ષણ યોજવામાં આવ્યું હતું.

Government engineering college Dahod has organized a seminar on "Awareness on Smart City Development Projects" on 7<sup>th</sup> July, 2022 in presence of Prashasti Parik, CEO, Smart City Development Project, Dahod. The program followed by tree plantation in campus.





- ❖ Dr. Kiran Seth, Professor IIT Delhi, Padmashree awarded, founder of SPIC MACAY is visited GEC DAHOD on 28<sup>th</sup> April, 2022 and interacted with students and faculties of the institute.
- \* Training and Placement Cell, GEC DAHOD has arranged TCS NQT awareness program by TCS on 29th June, 2022 on online mode.





Mechanical Engineering Department, Government engineering college Dahod has organized an Industrial visit at Fair flow Ventilation, Manjusar GIDC, Vadodara on 22<sup>nd</sup> March 2022 under ISHRAE Baroda Chapter.



- ❖ Mechanical Engineering Department, Government engineering college Dahod has organized an Industrial visit for 6<sup>th</sup> Semester B.E. Mech. at R.B. Motors, Dahod on 7<sup>th</sup> April 2022.
- ❖ Mechanical Engineering Department, Government engineering college Dahod has organized an Industrial visit for 4<sup>th</sup> Semester B.E. Mech. at New Janta Metal Works, Dahod on 8<sup>th</sup> April 2022.





Institute inspection was carried out by Gujarat Technological University (GTU) inspection team on 1<sup>st</sup> June, 2022.



- ❖ Faculty interaction between GEC DAHOD and GIDC College of Engineering, Navsari were carried out on 5<sup>th</sup> July, 2022 at Mechanical Engineering Department GE C DAHOD.
- An initiative of Dahod District Administration "Eklavya Prayas" for JEE/NEET quality and free coaching at GEC DAHOD on 14th April, 2022.



# **Women Development Cell activities**

Dr. Nital S. Bamaniya, Senior Medical Officer (SMO), District Training Team, Dahod was invited to deliver an expert talk on 22-02-2022. It was organized by Women Development Cell, Government Engineering College, Dahod.



An expert lecture was arranged at Government Engineering College, Dahod on 06/04/2022. It was organized by Women Development Cell, Government Engineering College, Dahod. Dr. Saiyed Nizamuddin M. Kazi was invited to share his expertise and experience in the field of sports and self-defense. He was recognized among top 100 coaches of Asia and top 1000 world coaches by International Martial art hall of fame in 2019.



# Women Development Cell activities

A Legal awareness Program was organized at Government Engineering College, Dahod on 19/04/2022. It was jointly organized under the aegis of district legal services authority, Dahod and Government Engineering College, Women Development Cell, Dahod. The guest of honor was Addl. Dist. Judge, Dahod Shri S. I. Bhorania and other renowned speakers were Full Time Secretary, Dahod: Shri D. A. Patel, Ex. Assistant Government Pleader: Ms. Mamtaben Shrivastav, Prof. Law College, Dahod: Ms. Purnimaben, Senior Panel Advocate: Shri. P G Joshi, Para Legal Volunteer: Shri. Hiralal Solanki.















Prof. H B Surti, Asst. Prof., Electrical Engineering Department has been selected in Gujarat Secretariat Table Tennis team and represented Gujarat Secretariat at All India Civil Services Table Tennis Tournament 2021-22, Agra, Uttar Pradesh from 24/06/2022 to 28/06/2022.



26<sup>Th</sup> January, 2022 Republic Day of India has been celebrated at Government engineering college Dahod in presence of all institute staff and Principal sir.



Institute celebrated YOGA DAY on 21 June, 2022 in presence of faculties and students





Government engineering college Dahod arranged sports week during March 7-11, 2022

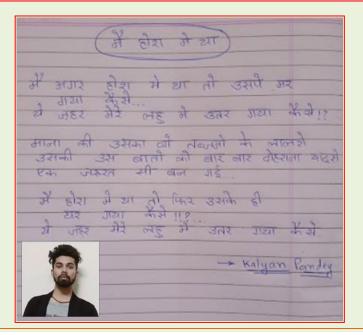


## **Students Corner**

Sketches prepared by Mr. Aelvin Tandel, student of Mechanical Engineering Department



Poem prepared by Mr. Kalyan Pandey, student of Mechanical Engineering Department



# **Result Corner**

# Result B.E. Semester 8<sup>th</sup> Summer 2022

Program	Total Students	Pass Students	Fail Students	Percentage Result
Civil Engineering	118	116	2	98.31
Computer Engineering	65	63	2	96.92
Electrical Engineering	118	118	0	100.00
E.C. Engineering	35	35	0	100.00
Mechanical engineering	105	103	2	98.10

# **Campus Placement**

Sr. No.	Program	No. of student selected in on campus / Off campus interview
1	Computer	45
2	Electrical	07
3	Mechanical	04
4	E.C.	01
5	Civil	03