NEWSLETTER : OCTOBER-DECEMBER 2021 | G E C P





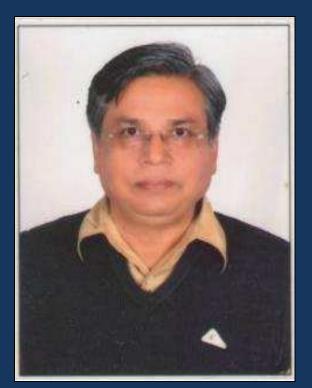
INSTITUTE GLIMPSES

Government Engineering college Patan end searingly known as G.E.C.P is situated at the scenic village katpur Patan city. Started in 2004 with an aim of imparting quality higher education in various fields of engineering, it has seen unprecedented growth. It is affiliated with Gujarat Technological University & administrated by Directorate of Technical Education, Government of Gujarat.



From the Desk of Principal

Principal



Dr. H .S. Patel

The Government Engineering College Patan welcomes all and we are delighted to introduce our college having a rich tradition of soaring high with academic excellence and overall personal growth of the students. The purpose of education is to teach our students to think and develop a capacity to reason out facts and this is achieved by providing them excellent academic environment, state-of-the-art infrastructure. state-of-the-art laboratories. and dedicated and highly qualified faculty members with decades of teaching and industrial experience creative and practical teaching-learning oriented practices along with other developmental activities.

We are having the goal is to transform the world through technical education. It may sound idealistic, but this is precisely our long-term goal. It is what motivates the work of everyone at the Government Engineering College, Patan from faculty and staff, to students and alumni. It inspires teaching and our research. It is this goal that fuels the faculty to excel.

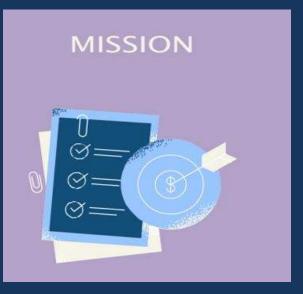
Institute Landmarks

Mandate

Vision

To prepare Human Resource with value based competency for technical advancements and growth of society. To impart the technical education as per the state and national policy which satisfy the current needs of the society, to interact with the industry and research organizations for the integrated growth, to make the liaison with statutory and professional Organizations and to provide the training and research opportunities to the student and faculties in best possible manner.





To deliver technical programs and services to cater the current needs of society and industry.

Helping industries in solving challenges by means of providing best technical human resources



Editor in chief:

PROF.M. B. PATEL

Members:

Prof. A.B.DHRUV Prof. G.A.PATEL Prof. S.D.JOSHI Prof. H.B.JETHAVA Prof. N.C.CHAVADA Prof. D. J. VARIYA Prof. V.D.PATEL





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- 5. NSS activities

NEWSLETTER DETAILS FOR GEC PATAN (OCTOBER-DECEMBER 2021)

<u>1. PAPERS PRESENTED/PUBLISHED</u>

Mechanical Engineering Department

- Ammar H. Elsheikh, Hitesh Panchal, Mahmoud Ahmadein, Ahmed O. Mosleh, Kishor Kumar Sadasivuni, Naser A. Alsaleh, Productivity forecasting of solar distiller integrated with evacuated tubes and external condenser using artificial intelligence model and moth-flame optimizer, Case Studies in Thermal Engineering, Volume 28, 2021, 101671, ISSN 2214-157X. (IF: 4.7, SCIE)
- GukendranRangasamy,SambathkumarMani,SasikumarKondayampalayamSenathip athygoundarKolandavelu, Mohammad S. Alsoufi, Ahmed Mohamed Mahmoud Ibrahim, Suresh Muthusamy, Hitesh Panchal, Kishor Kumar Sadasivuni, Ammar H. Elsheikh, An extensive analysis of mechanical, thermal and physical properties of jute fiber composites with different fiber orientations, Case Studies in Thermal Engineering, Volume 28, 2021, 101612, ISSN 2214-157X. (IF: 4.7, SCIE)
- Sanjaykumar A. Borikar, Mahendra M. Gupta, Mashhour A. Alazwari, Prateek D. Malwe, Essam B. Moustafa, Hitesh Panchal, AmmarElsheikh, A case study on experimental and statistical analysis of energy consumption of domestic refrigerator, Case Studies in Thermal Engineering, Volume 28, 2021, 101636, ISSN 2214-157X. (IF: 4.7, SCIE)
- Samir M. Elshamy, Emad M.S. El-Said, Hitesh Panchal, Hamed R. El-Tahan, Performance assessment of a solar water distiller using circular parabolic absorber: An experimental investigation, Case Studies in Thermal Engineering, Volume 28, 2021, 101508, ISSN 2214-157X. (IF: 4.7, SCIE)

Electrical Department

• Prof. S.G.Prajapati & Prof. Sanjay Vyas present a conference paper entitled "Energy Management of Grid Connected Renewable Sources With Energy Storage Unit For an EV Charging Station" in International Conference in Virtual ModeonSustainable Technology and Advanced Computing in Electrical Engineering during 11th and 12th November 2021.

2. DEPARTMENTAL ACTIVITIES

Mechanical Engineering Department

• An industrial visit was organized at ONGC, Mehsana on 17th December 2021. Twenty Five students from 3rd SEM have participated in the visit. Indrajit Sir of ONGC, Mehsana has instructed about the safety precautions during visit. Students have visited two wells situated at Palavasna, Mehsana.





Electrical Department

 A seminar was arranged on 14/12/2021 on Overseas Employment & Career Information. The lecture was delivered by Ms. Neha Patan- overseas counselor, Ahmadabad The seminar was very helpful for 3rd sem electrical and computer engineering students.



• A technical site visit at ONGC Mahesana was arranged on 17/12/2021 for B.E-Electrical 3rd semester students.





The visit organized for ONGC oil and Gas division under ajadi ka amrut mahotsav.

3.STUDENTS' ACTIVITIES

Mechanical Engineering Department

- Thakor Pruthviraj Sinh is selected for 26th January republic day parade at Delhi.
- Meet Chaudhary of 5th SEM, Mechanical Basketball men team for West Zone Inter University Tournament.
- Dipak Rajbhar of 5th SE, Mechanical has secured gold medal at GTU Spririt-2021-22 as a Best Physique (Men) in 60-65 kg weight category.





<u>4. FACULTY ACTIVITIES</u>

Mechanical Engineering Department

- Prof.(Dr.) A.B. Dhruv, Head Mechanical Engineering has contributed as Resource Person in ATAL online Elementary FDP on "Robotics and Automation" from 20/12/2021 to 24/12/2021 at Government Engineering College, Modasa.
- Design Patent accepted and published of Dr. Hitesh Navinchandra Panchal, on "Solar Distillation apparatus with bottom reflector" Design No: 347409-001 in Journal No is 43/2021 and Journal Date is 22/10/2021

PROGRAMS PARTICIPATE BY FACULTIES

Sr. No	Title	Name of the faculty	Department	Place	Duration
1	WORK ETHICS, MOTIVATIONAL CLIMATE AND ATTITUDE DEVELOPMENT	Prof. K. V. Patel	Mechanical Engineering	NITTTR Bhopal(Online)	11/10/2021 to 16/10/2021
2	Creativity and Innovation	Prof S. S. Patel	Mechanical Engineering	NITTTR Bhopal(Online)	02/08/2021 to 06/08/2021
3	Train the Trainer Program	Prof S. P. Patel	Mechanical Engineering	iACE, Gandhinagar	20/09/21 to to 24/09/21

Electrical Department

• Prof. S.G.Prajapati delivered an expert talk on "Solar rooftop System" in GTU sponsored Training Engineering students on 1st DEC 2021.

Electronics and Communication Department

- Prof.M L PATEL has completed the Online training on Inculcating Universal Human Values in Technical Education AICTE from 18/10/2021 to 22/20/2021(1 week).
- Prof.R A CHAUDHARY has completed the Online training on Work ethics, Motivational climate and Attitude Development held by NITTTR, Bhopal during 11-10-2021 to 15-10-2021(1 week)
- Dr. Maulik B. Patel has delivered an online Expert talk on "Secret of Happiness "in Narnarayan Shastri Institute of Technology Jetalpur on 27/11/2021.

5. NATIONAL SERVICE SCHEME (NSS) ACTIVITY

[1] "Gandhi Jayanti and Lal Bahadur Shastri Jayanti" on 1st of October, 2021

Mahatma Gandhi, the pioneer of the India's freedom struggle, and Lal Bahadur Shastri, the second Prime Minister of India, were born on October 2. They coined popular national slogans that resonated with masses. October 2 is of great national importance for our country as on this day,two great leaders were born on the Indian soil. Mahatma Gandhi, the pioneer of India's freedom struggle, and Lal Bahadur Shastri, the second Prime Minister of India, with their selfless service to the nation, continue to inspire everyone.

On 1st October, In the morning at 11 AM program organized by NSS UNIT of Government Engineering College, Patan. Event is held at electrical seminar hall of GEC PATAN. Principal sir, Faculties andvolunteers of NSS are present for this offline event after very long time. The event started with Sarasvati Vandana by our volunteers. Deep manifestation was done by Principle sir and other faculties. After that,Event anchor give a limelight on Gandhi Jayanti and Lal Bahadur Shastri Jayanti. In this event, various competition like Patriotic Singing and Elocution are held. An Instagram Quiz was also held for remembering our National Heroes.

Afterwards, participants continued the event by Singing, Elocution, Group Singing, etc. A.K.Chaudhary Sir gave an informative speech on Mahatma Gandhi and Lal bahadur Shastri's Struggle. At 7 pm, an Instagram quiz was started and in that many students of the college and people fromoutside the college can also participated.

Major Outcomes of Event

- ➤ Learn Team Work and Discipline.
- ➤ Learn to give respect to our freedom fighters.
- ➤ Learn how to face stage fear in competition.











[2] "Cleanliness Drive and Tree plantation" on 1st of October, 2021.

Cleanliness may be defined to be the emblem of purity of mind and discipline. Clean India mission is a country wide campaign initiated by the Government of India, by our belovedprime minister Shri Narendra Modi. To accelerate the efforts to achieve universal sanitation coverage, he launched abhiyan which can be followed nation-wide as small initiative. A similar effort with Cleanliness Drive and tree plantation was made by team of NSS GEC Patan on 1st October.

That day at 9:30 am tree plantation was held in presence of Principal sir, faculty members and volunteers. At the place near Mechanical department Principal and faculty members were planted trees with volunteers and other students. Everyone took an oath to grow more trees and preserve them.

On that day, NSS volunteers were gathered in front of electrical department at approximately 11:30 A.M. In the direction of M.I. Balya Sir and Dr. Ashok Chaudhary sir, volunteers and other students cleansed the ground front of electrical department and volleyball ground. Students actively participated for pushing out herbs and collecting the waste of their college. The event successfully completed with appreciation of seniors for everyone's great effort.

Major Outcomes of Event

- \succ Get to know the importance of cleanliness.
- Physical well being and a healthy environment can be established by swachhta.
- ➤ Learn teamwork and work discipline.
- > Planting trees gives immense joy to everyone.







[3] "Celebration of Sardar Patel Jayanti" on 31st October 2021.

Vallabhbhai Jhaverbhai Patel endeared as SARDAR, was an Indian Revolutionary. We celebrates 31st October as "SARDAR PATEL JAYANTI" on the birthday of him. We are very pleased to announced that the event "Celebration of Sardar Patel Jayanti" was very successful. In this event, We organised two competitions as following. [1] Group video competition (Dance, Speech, Slogan, Poem, Drama, Song, etc. [2] Drawing/Essay competition (National Unity Day). These competitions were organised in online mode from 29th October to 31st October 2021 till 12:00 pm. In these competitions we allowed everyone who wanted to take part in it even out of our college.

On 31st October at 03:00 pm, we all together on MS Team platform. The event started with video about Sardar Patel's detail introduction. After that pledge of unity was taken by all members. Then our program officer Dr. Ashok Chaudhary sir gave wonderful speech about Sardar Patel. He advised us to be inspired from Sardar Patel. Then one another video is played about Sardar Patel's lifestyle. In that video it was informed about the hospitality done by Sardar like merging 565Kingdoms, Peasant movements etc. One of NSS Volunteer shared his thoughts about Sardar Patel.

At the end of event, the winners of different competitions were announced. All articipants of the competitions were awarded by e-certificate. The event was ended by vote of thanks to Principal of our college Dr. H. S. Patel, Program officer of NSS Dr. A. K. Chaudhary, other faculty members and students.

Major outcomes of the event

- After the event we have understood that real meaning of 'UNITY'.
- We have learned Leadership, fearlessness and qualities of public welfare from the legend.
- We learned Sardar Patel's role in our independence.
- He is truly the IRONMAN of our nation.







[4] "72nd Indian Constitution Day" on 26th of November, 2021.

"Without a strong constitution, no country can become a strong nation."

Constitution Day (Samvidhan Divas), also called as "National Law Day", is celebrated in India on 26th November every year to commemorate the adoption of the Constitution of India. On26 November 1949, the Constitution Assembly of India adopted to the Constitution of India and it came into effect on 26th January 1950.

The Government of India declared 26 November as Constitution Day on 19 November 2015 by a gazette notification. The Prime Minister of India Narendra Modi made the declaration on 11 October 2015 while laying the foundation stone of the B. R. Ambedkar's Statue of Equality memorial in Mumbai. The year of 2021 was the 131th birth anniversary of Dr. Ambedkar, who was chair person of the drafting committee of the Constitution Assembly and played a pivotal role in the drafting of the constitution. Previously this day was celebrated as Law Day. 26 November was chosen to spread the importance of the constitution and to spread thoughts and ideas of Ambedkar. PM Modi Speech on National Law Day 2021, 26 November and also The President, Vice President and Lok Sabha Speaker also addressed the program.

On 26th November 2021, Indian Constitution Day was celebrated by NSS Unit from GEC, PATAN. Our honourable principal Dr. H.S.Patel Sir, Staff members, and the NSS team actively participated in the program. NSS Volunteer Anika Rehan was the Anchor of the event. The event was started with "Saraswati Vandana" with "Deep Prajwalan". Our Honourable Principle Dr. H.S.Patel and Prof. A.K. Chaudhary gave best wishes for the day. S.G.Prajapati Sir shared some knowledge about our Indian Constitution.

Major Outcomes of Event

- ➤ Understand the emergence and evolution of Indian Constitution.
- > Understand the structure and composition of Indian constitution.

➤ Learn how to handle event with discipline.











સરકારી એન્જિનીચરીંગ કોલેજ પાટણ દ્વારા બંધારણ દિવસની ઉજવણી કરવામાં આવી

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પાટણા ! કરાકારી મેન્જિનિયરિંગ કોલેજ પાટલ સિંત કાર્યરત મેનમેસમેસ યુનિંદ હવા 16 નવેમ્બરે બારતીય મંપારક દિવસની ઉક્ષવણી કરવામાં આવી હતી. આ કાર્યક્રમમાં કોલેશના આચાર્ય, કેક્સરી ગલ અને મોટી સંખ્યામાં વિશાસીઓ જોડાયા હતા. કાર્યક્ષમના મુખ્ય વાન્સ પ્રેટેસર એસ.જ. કાજાપતિ પ્રારા વિદ્યાર્થીઓને ભારતીય બંધારણ અને તેના અથવ વિદ્યે ગઈદતગાર કર્યા હતા. કાર્યક્રમનાં મંત્રે ઉપયંત્રિત કરે કરશ દાયલ ગ્રહણ કરવામાં આવ્યા હતી, કેલેજના અસ્થાર્થ છે. એવ એસ પરેલ તથા એનએકએસ કાર્યક્રમ અધિકારી છે. એ કે ચીધરીના સાર્યકાર્ટન હેઠળ સર્વ્યોગમાં ફાર આયોજન કરવામાં આવ્યું હતું.

[5] "WORLD AIDS DAY" 29th of December, 2021.

World AIDS Day, designated on 1st December every year since 1988, is an international day dedicated to raising awareness of the AIDS pandemic caused by the spread of HIV infection and mourning those who have died of the disease. The Acquired Immunodeficiency Syndrome (AIDS) is a life threatening condition caused by the Human Immunodeficiency Virus (HIV). World AIDS Day is one of the eleven official global public health campaigns marked by the World Health Organization (WHO).

NSS GEC Patan unit organized an offline event on 'World AIDS Day' in collaboration with 'GUJARAT STATE AIDS CONTROL SOCIETY'. The event begins by the members of Gujarat State AIDS Society by Prof. Roshni Mam. Then Mam gave brief introduction about the event and about our guests to students. Then she requested our guest to spare the knowledge about the topic. The guest inform us about 'AIDS and how does it transmit from one person to another, what are the symptoms and what are the treatments of AIDS. They also gave details about other STD (Sexually Transmitted Disease) like HIV, TB, Chlamydia, etc. By expanding their speech they also explain how important is blood donation and how it is helpful. Then they commence the drawing competition. The paper sheets, pencil and colors were provided by guests. The subjects of competition were AIDS, TB, Blood Donation, and HIV. Students were free to pick any subject they like and draw according to their imagination. The time limit of competition was 40 Minutes and under that students have to submit their drawing. After everyone has submitted their drawing then judges take their time to decide the winners. Then judges declare winners, later on they distributed the price. Then guests thank the students for their participation, the event ended with the vote of thanks by Prof. Roshni Mam.

Major outcomes of event

- By this event students got aware about the AIDS.
- They learn how to prevent and stay safe from the disease .
- > The participation of students was great in drawing competition.

[6] "NATIONAL TOBACCO CONTROL PROGRAM" on 27th December 2021.

27th December 2021 NSS GEC Patan organised an event on "Vyasanmukti" collaborating with "Health Department District Panchayat Patan", under which we arranged an Elocution competition with topic to be spoken as "CHOOSE LIFE NOT TOBACCO". Many of the guests charmed our event with their presences. The chief guests of the event were CHO Katpur, Pinkiben Patel; CHO Manpur, Mayurbhai Prajapati; MPHS Khungher, Anilbhai Agarwal; Medical officer Khungher, Dr. Rashmikaben Patel; District Tobacco Cell, and from Mukeshbhai Solanki.

As NSS tradition our program started with a prayer and Deep pragatya, which was followed by NSS song. Then without wasting time we started our elocution competition, which was enhanced and glorified by active participation of our chief guests, Faculty members and students. Each and every participant expressed their transcendental thoughts regarding the situation of tobacco usage in India.

There were 9 participants and all spoke with their full potential. After that our chief guests shared their thoughts on topic. Prof.A.K. Chaudhari also shared his opinions. It all went with ease and enthusiasm. After that, the time for the results came. Winners were awarded- not only that, all the participants were given participating gifts. At the end according to our tradition we all raised for National Anthem and our program concluded. After the end of the program, free covid-19 RT- PCR test were done by the health team in the college hostel.

Major points discussed by them include :-

- Tobacco contains Nicotine, which promotes the release of adrenaline.
- Deaths all over the world due to Tobacco.
- Diseases caused by tobacco usage.
- Increasing females in consumption of Tobacco
- How to stop addiction to tobacco.





