



प्रज्ञानम्



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 oriented teaching-learning 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 our teaching and research. It is this goal that fuels the faculty to excel.

Institute Landmarks

Mandate

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.

Vision

To prepare Human Resource with value based competency for technical advancements and growth of society.



MISSION



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

*The real life of man
consists of knowledge*

150th
Birth Anniversary of
Swami Vivekananda
www.sv150.info



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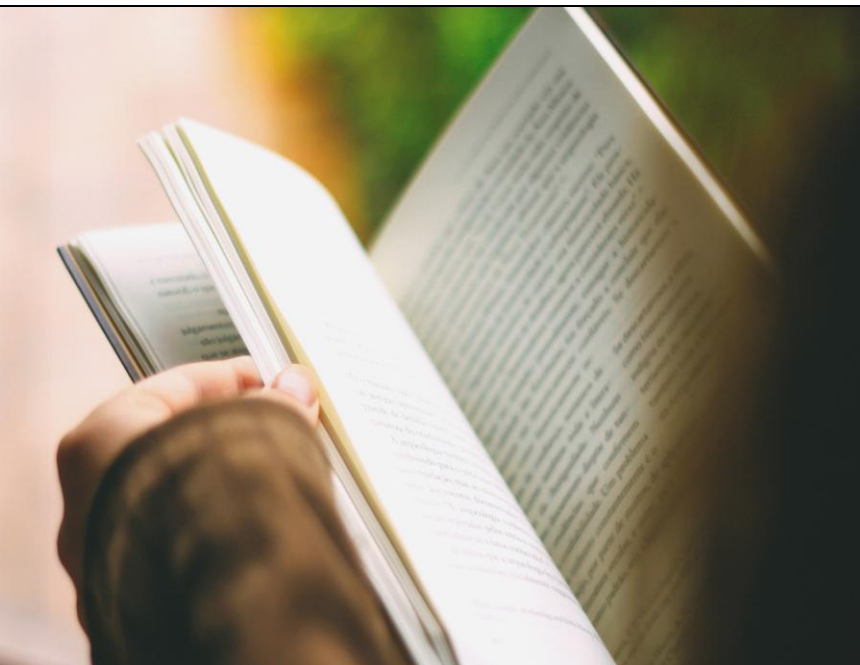
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Prof. H.B.JETHAVA

Prof.V.P.SONI

Prof. D. J. VARIYA

Prof. V.D.PATEL



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NEWSLETTER DETAILS FOR GEC PATAN (OCTOBER-DECEMBER 2022)

1. PAPERS PRESENTED/PUBLISHED

Electrical Engineering Department

[1] Research Paper published by Prof. P.D. Patel , Asst. prof. Electrical Engg. in International Conference on “Hydro and Renewable Energy Net-Zero Carbon Energy System,” organized by IIT Roorkee from October 17-18, 2022.

[2] Research Paper published by Prof. S. G. Prajapati , Asst. prof. Electrical Engg. On title “ENERGY MANAGEMENT OF GRID-CONNECTED RENEWABLE ENERGY SOURCES FOR ELECTRICAL VEHICLE CHARGING” organized by STATIONGongcheng Kexue Yu Jishu/Advanced Engineering in November 2022 Science Publisher: Editorial Department of Journal of Sichuan University

[3] Research Paper published by Prof. S. G. Prajapati , Asst. prof. Electrical Engg On title “Solar, Wind, Battery energy storage management and control for electric car charging load” in International Conference on Science, Engineering and Technology (ICSET 2022) 18th - 19th Nov 2022 organised by R.K.University, Rajkot

2. DEPARTMENTAL ACTIVITIES

Mechanical Engineering Department

- On September 11th, 2022, Prof. (Dr.) K.V. Patel organized a one-day workshop at COE Electrical Lab on "Learn interface of PLC with Modbus and sensors through Simulator" for final-year (7th semester) Electrical Engineering students.



- A technical site visit to Banas Dairy, Palanpur was arranged for student's semester of BE 5th and 7th semester on **17th October 2022**. The purpose of the visit was to have an insight into the production function of all the major high end projects such as Quality control, Process Control and instrumentation.
- A total number of 30 students along with faculty members Prof. (Dr.) S. P. Patel and Prof. G. S. Patel had made the visit with prior permission from the concerning agency.



Computer Science & Engineering Department

Event -1: ONE DAY WORKSHOP ON DATA SCIENCE TOOLS” Dated: 25/11/2022

Host Club name: Data pool Club

A one day workshop on “DATA SCIENCE TOOLS” was organized by Government Engineering College, Patan under entrepreneurship club on 25/11/2022. A speaker of this workshop was Mr. Himashu Rathod.

The seminar was successfully organized by Data pool Club student coordinators under the guidance of Dr. H.B. Jethva -Head of CSE Department and mentor faculties Prof.H.L.Chaudhary and Prof. M.J.Vasava.

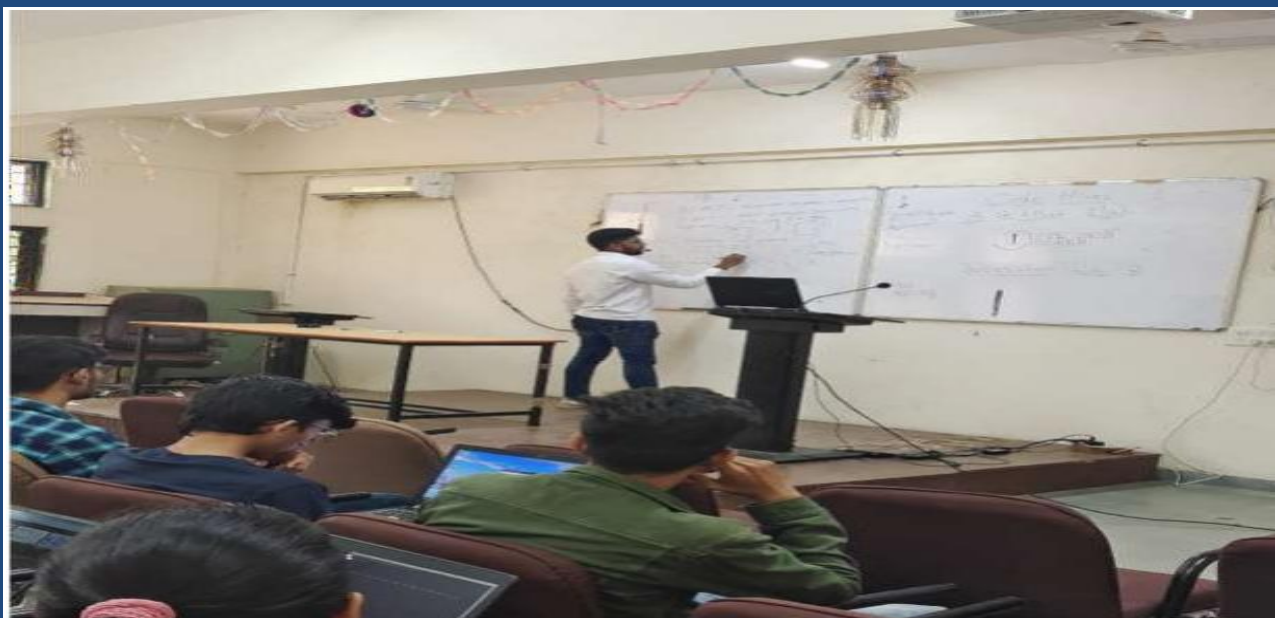


Event -2: Two Days Seminar on “Dive Into Docker” Date: Nov 28TH & 29TH 2022

Host Club name: GIT Hub Club

Mr. Jenil Sathvara. He is a student of Bachelor of Engineering in Computer Science and Engineering Branch. He is currently in 7th semester. He is having great knowledge about Docker (A Tool that provide Container facility), other container tools. He is a DevOps Aspirant. The session was conducted offline as a seminar considering the knowledge about Docker and Containerization; Around 50 students have taken part in the event.

Session was winded up by the fruitful speech and a warm thanks to Mr. Jenil by our HOD sir, Prof. H. B. Jethva and Prof. Sachin Makwana and Prof. Jay Patel. Lastly our HOD sir gave Gift to Mr. Jenil for giving his valuable time and knowledge.



General Department

TECHNICAL OPEN HOUSE

“Technical open house to explore the technical abilities of the student”

Event Organized on Date: 30/12/2022

Under the visionary leadership of Honorable Principal Dr. H.S.PATEL, Government Engineering College, Patan successfully organized ONE DAY OPEN HOUSE ON “Technical open house to explore the technical abilities of the student” at Government Engineering College, Patan on 30th December 2022. The open house aimed to bring together the students of all engineering department from the institute and surrounding colleges to share their technical ideas with each other, also discuss the current trends of technical advancement in various field of an engineering, which will definitely boost the technical and creative part of student in order to meet the challenges ahead in technology.

PATRON:

Dr. H.S. Patel

Coordinator:

Dr. A. K. Chaudhari

Dr. H. S. Bhutadia

Name of Judges:

Prof. M. L. Patel

Dr. S. P. Patel

Dr. B. S. Patel

Prof. Divyesh Bavisha

Result of the Event

Category 1

Sr. No.	Group No.	Topic	Name of Student	Remark
1	7	Portable Charger for EV's	Patel Daivik Parmar Yash Bharadva Jay Bhavsar Utsav Panchal Prince	1 st Prize
2	6	Starlink Satellite	Patel Prem Bhavsar Pranam	2 nd Prize
3	4	Li-Fi	Patel Jay Patel Kalpesh Patel Mihir Patel Pathik	3 rd Prize

Category 2

Sr. No.	Group No.	Topic	Name of Student	Remark
1	19	Home Automation	Prajapati Kartik Prajapati Ved Prajapati Yash Patel Pari Chaudhry Sangita	1 st Prize
2	17	Home Automation	Manish Yadav Suthar Dhruvil Patel Yash Thakkar Krishna Patel Disha	2 nd Prize
3	28	Cloud Storage in DNA and GGGQEP Sixth sense technology Anti sleep alarm	Chaudhry Ashish Chaudhry Vinod Vanol Sanjay Thakor Pravin	3 rd Prize

Some Memories





Prize Distribution



Prize Distribution



Memento Distribution



Guidance to Students

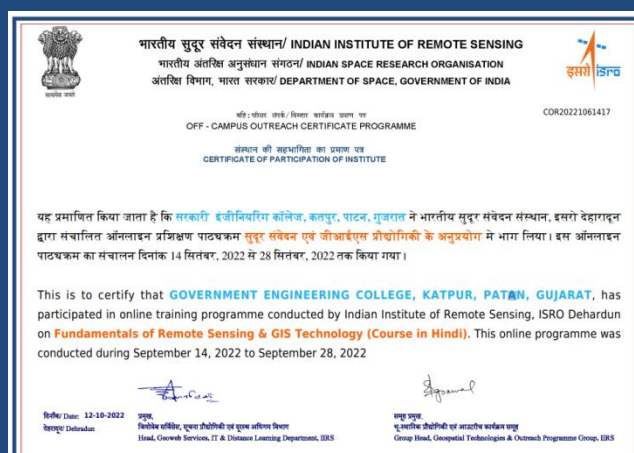


Conclusion

- As the event was aimed to aware the students about recent advancement in technical education and we successfully meet the prerequisite of the event at the end of day. Any technical institution must focus in the direction, where we can invoke the technical capability of students. This was our small but important step toward that direction.
- Without kind interest and support from head of institution (Dr. H. S. Patel) no event can land at this level of success, so feeling pleased to have supporting and creative institute head.
- This time we introduced one new concept, that senior students can also put their projects for better exposure before expert and faculties to incorporate advance inputs in their projects. We got good response in that direction and hope for still more intensify response from senior students in upcoming open houses.
- Students from all the branches (Computer Science & Engineering, EC, Electrical 1st Semester) participated with great enthusiasm and presented their creative ideas before the experts and faculties. At the end of day, participant felt confident and enrichment of advance knowledge that itself reflect the grand success of event.

Civil Engineering Department

- GOVERNMENT ENGINEERING COLLEGE, KATPUR, PATAN, GUJARAT, has participated in online training programme conducted by Indian Institute of Remote Sensing, ISRO Dehardun on Fundamentals of Remote Sensing & GIS Technology . This online programme was conducted during September 14, 2022 to September 28, 2022.



3. FACULTY ACTIVITIES

Mechanical Engineering Department

Programs Participate By Faculties

Sr. No	Title	Name of the faculty	Department	Place	Duration
1	Welding Technology	Prof. V.K.Patel	Mechanical	iACE, Gandhinagar	10/10/2022 to 14/10/2022
2	Creativity and Innovation	Prof. M.G.Patel	Mechanical	NITTTR Bhopal	19/12/2022 to 23/12/2022

Electrical Department

Design Patent registered by Prof. G.A.Patel for “FUEL LEVEL MEASURING DEVICE” in December 2022

Electronics and Communication Department

- Dr. Haresh L. Judal has successfully completed the NPTEL Online Course on “Internet of Thing” from 25/07/2022 to 14/10/2022 by Swayam Portal
- Prof. Mehul L. Patel has successfully completed the NPTEL Online Course on “Fundamentals Of Artificial Intelligence” from 25/07/2022 to 14/10/2022 by Swayam Portal

Civil Engineering Department

- DR. VIJENDRAKUMAR M. PATEL, has coordinated the online training course on Fundamentals of Remote Sensing & GIS Technology conducted by this institute during September 14, 2022 to September 28, 2022.

4. STUDENT ACTIVITIES

Mechanical Engineering Department

- RajbharDipakkumarHarekrishna, a seventh-semester B.E. Mechanical student, has been chosen to represent Gujarat Technology University Kabbadi Team Man in the All-Indian Intercollegiate University Tournament from November 24 to December 1, 2022.
- ThakorPruthvirajNarendrasinh Student of 7th sem mechanical Branch Has Represented GEC Patan and GTU at Swami Vivekanand institute of mountaineering at Mount Abu Rajasthan for Basic Rock Climbing Training



પાટણ એન્જિનીયરીંગ કોલેજનો વિદ્યાર્થી પર્વતારોહણ શિબિરમાં પસંદગી પામ્યો

(નિ.ન્યુ.સ.) પાટણ,તા.૨૮ પર્વતારોહણ સંસ્થામાં દસ દિવસ
પાટણના કલપુરમાં આવેલી (૧૫/૧૧/૨૦૨૨ - ૨૪/૧૧/
સરકારી એન્જિનિયરીંગ કોલેજનો ૨૦૨૨) માટેનો પ્રાથમિક ખડક
વિદ્યાર્થી ઠાકોર પૃથ્વીરાજ નરેન્દ્રસિંહ તાલીમ શિબિરનું આયોજન કરવામાં
રાજ સ્થાનના માઉન્ટ આલુમાં આવેલ સ્વામી વિવેકાનંદ આલ્યુ હતું જેમાં સમગ્ર યુનિવર્સિટી
પર્વતારોહણ સંસ્થાની શિબિરમાં પામ્યા હતા. ક્યારે પાટણ વિદ્યાની
પસંદગી પામ્યો હતો. કોલેજને માંથી ઠાકોર પૃથ્વીરાજ
રાજ્યની સૌથી મોટી નરેન્દ્રસિંહ પસંદગી થઈ હતી. આ
ટેકનોલોજીકલ યુનિવર્સિટી તરીકે શિબિરમાં ભાગ લેનાર વિદ્યાર્થીઓને
નામના મેળવનાર અને રોક ક્લાઈમ્બિંગ રોક રેપલિંગ તથા
વિદ્યાર્થીઓના સર્વાંગી વિકાસ માટે પ્રકારની જાનકાની ને ટાળવા માટે
સતત કાર્યરત રહેનાર ગુજરાત શું કરી શકાય તેની તાલીમ
ટેકનોલોજીકલ યુનિવર્સિટી દ્વારા પ્રકારની આપવામાં આવી હતી.
સોને પણ સમયાંતરે અનેક ઠાકોર પૃથ્વીરાજ નરેન્દ્રસિંહ આ
કાર્યક્રમોનું આયોજન કરાય છે. શિબિર માટે પસંદગી પામીને કોલેજ
યુનિવર્સિટી દ્વારા તાજેતરમાં તથા સમગ્ર પાટણ જિલ્લાનું ગૌરવ
રાજસ્થાનના માઉન્ટ આલુ ખાતે પધાર્યું હતું હવે ભવિષ્યમાં તેઓ
આવેલ સ્વામી વિવેકાનંદ ઉચ્ચ કક્ષાની શિબિરમાં ભાગ લેશે.

- Following Student have been participate in Smart India Heckathon on 08/10/2022 at Ganpat University.

Singh masoom Mahesh prasad	7 th Semester
Thakor pruthviraj narendrasinh	7 th Semester
Patel Anshkumar Nileshbhai	5 th Semester

5. NATIONAL SERVICE SCHEME (NSS) ACTIVITY

[1] “Gandhi Jayanti” on 2 nd of October, 2022

On the occasion of 153rd birth anniversary of Late Shri Mohandas Karamchand Gandhi popularly known as Mahatma Gandhi “The Father of Our Nation” NSS Unit of GEC Patan organized an online event for celebrating the same. The Event was started by prayer song by NSS Volunteer Smruti Lakdawala. Then NSS song was played.

An online drawing competition was organized whose responses were asked to submit through Google Forms. Participants were given 48 hours to submit their responses, as a result of which many numbers of participants had submitted their responses. Out of which 3 Winners were selected by our judges of the event Dr. A.K.Chaudary Sir and Prof. Payal Prajapati Mam. The winners of Drawing Competition were as mentioned below. Speech Competition was held in which Participants were asked to give speech on topic Role of Mahatma Gandhi in Independence of India. The Winners of Speech Competition were appreciated with book and all enthusiastic participants get E-certificate. And Dr. H.S.Bhutadiya sir gave a great speech on personality of Gandhiji.

At the end of Event Program Officer of NSS GEC Patan Proff. N.K.Dabhi thanked the guests for their valuable presence and also thanked audience for being present. Then the event was concluded with national anthem.

Winners of Drawing Competition

1 st Rank	Mahto Gautam
2nd Rank	Dhruva Patel
3 rd Rank	Nikul Patani

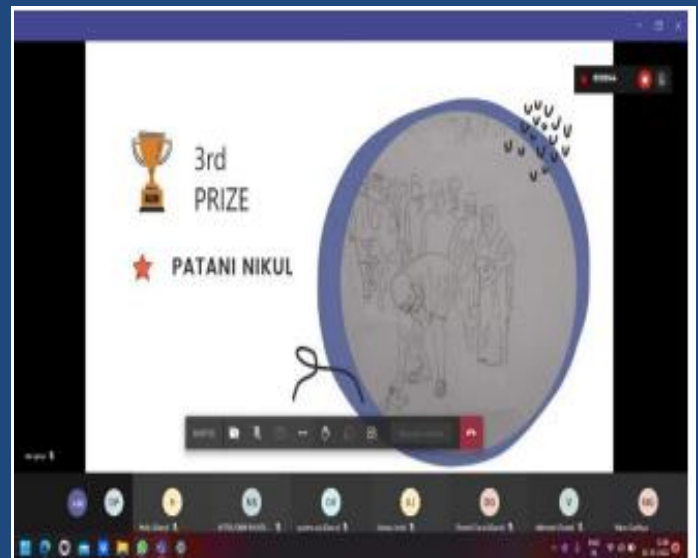
Winners Of Speech Competiton

1 st Rank	Garima Raj
2nd Rank	Vikhlesh Pillai
3 rd Rank	Anjali Rai & Chaudhari Khushi

Major Outcomes of The Event

- We got aware about a great personality Mahatma Gandhi and his role in freedom Movement.
- New Skills and Talent was encouraged in the event.
- Youth was motivated for following virtues of Gandhiji in different ways

Glimpse of the Event



[2] “THALASSEMIA CAMP” on 10th October, 2022.

A Thalassemia camp was organized at the Government Engineering College, Patan on Monday, 10 October 2022 for the thalassemia test of all the students. The camp was arranged at the workshop building on campus. It was organized by the Indian red cross society, Ahmedabad. The camp began at 10:30 am. All the students' samples were collected for the thalassemia test during this camp.

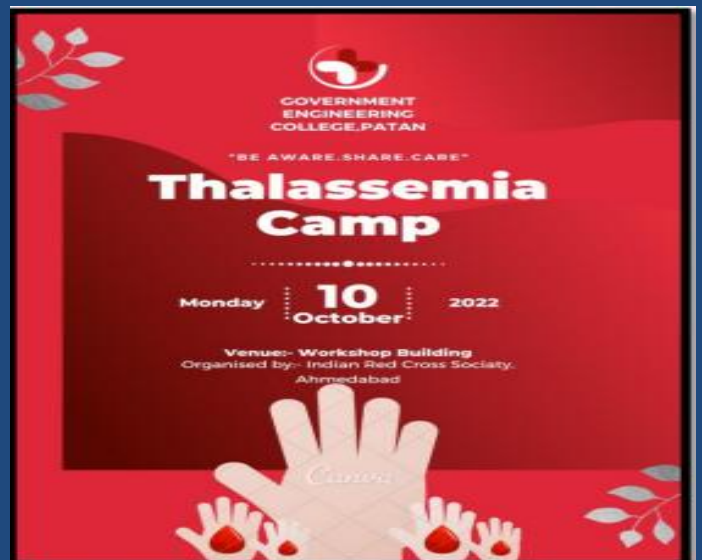
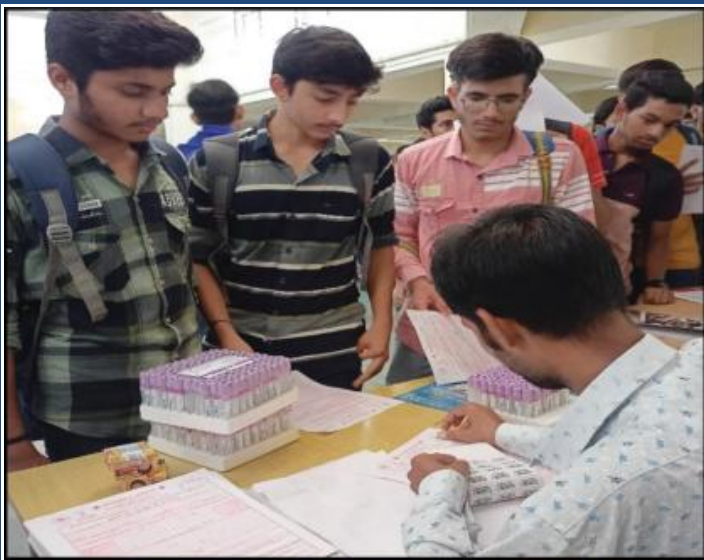
NSS volunteers helped the students for filling up their acknowledgment forms for the camp. There were a large number of students were present during the camp for getting their blood tested. About 200 students from various branches and semesters provided their blood samples for testing. Time slots were arranged for students according to their department for the ease of collection of blood samples.

The medical team administered to collect the blood samples from the students. Awareness was created among the students regarding thalassemia, its types and the effects of this blood disorder in our life. The importance of thalassemia testing was also elaborated.

Major Outcomes of Event

- Spreading awareness among the students about thalassemia and early diagnosis.
- Stress on the importance of a healthy diet and regular exercise for thalassemia patients.
- Encourage the students to donate blood regularly.

Glimpse of the Event



[3] “JOY OF GIVING” on 20th October, 2022.

The joy of giving is organized by NSS volunteers. In Patan city on Thursday, 20th October 2022 to give poor people clothes and sweets. The time of doing this work is 20th Oct 3:00 pm to 7:00 pm.

This event is organized to give poor people clothes and sweets the way NSS volunteers collected all wearable clothes from the neighborhood and divide them into the category after that NSS volunteers organized some sweets. After organizing all things NSS volunteer leave for distribution works in the south side of Patan city.

First of all, we went to a place which was close to our homes and there we gave the children clothes to wear and gave them some sweets. After that, we went to the nursery and gave sweets to the all workers. Then we went to where the poor people lived and gave clothes and sweets and after that, all the children gathered there and gave sweets and chocolates after that we came back.

Major Outcomes of Event

- Make everyone’s festival good and happy as far as we can
- People who are in need should be helped

Glimpse of the Event





સરકારી ઈજનેરી કોલેજ પાટણના સ્વયંસેવકો દ્વારા ગરીબોને દિવાળીની શુભેચ્છાઓ અપાઈ

(નિ.ન્યુ.સ.)

પાટણ,તા.૨૧
દિવાળી એટલે એક એવું પર્વ કે જે નાના હોય કે મોટા , ગરીબ હોય કે તવંગર સૌના માટે ખૂબ આનંદ અને ઉદાસનો તહેવાર છે. અને તેથી જ દેક વર્કિટ આ ઉત્સવ ઉજવી શકે તે હેતુ થી સરકારી ઈજનેરી કોલેજ પાટણ ખાતે કાર્યક્રમ એન. એસ .એસ ના સ્વયં સેવકો દ્વારા 'એક એક ગિલિંગ નો કાર્યક્રમ હાથ ધરાવ્યો હતો. જે અંતર્ગત સ્વયંસેવકો દ્વારા પાટણ ના અંતરિયાળ વિસ્તારમાં રહેતા લોકો કે જેઓ આર્થિક રીતે અસમર્થ હોય તેમને કપડાં તથા ખીસકાઈ આપી દિવાળી ની શુભકાંચનાઓ ખાઠવી હતી. તેમજ બસતીના બાળકો સ્વાસ્થ્ય ચોકલેટ તથા બિસ્કીટ નું વિતરણ કરી તેમની ખુશીઓમાં ઉત્સાહ ભેર ભાગ લીધો હતો. આ એક એક ગીલિંગ નો કાર્યક્રમ એન.એસ.એસ ના પ્રોગ્રામ એકિસ્ટ થી ના માર્ગદર્શન અને મદદ થી ખૂબ જ ઉત્સાહ પૂર્વક કર્યો હતો.જેમાં સંસ્થા ના આચાર્યશ્રી અને શિક્ષક ની સહયોગ રહ્યો હતો.



[4] “Celebration of Indian Constitution day” on 24th November, 2022

Indian Constitution Day is celebrated on 26 November. The celebration of Indian Constitution Day has been started in the year 2015. From 26 November 2015, we are celebrating this day.

On the occasion of Indian Constitution Day, the event had been organized by the volunteer of the NSS unit. At the beginning of the event, the Deep Pragatya ceremony has been held in the presence of many professors and respected principal sir. Then after welcoming all the respected members had done.

The speech was given by NSS Volunteer Vikhlesh Pillai. After that expert lecture had been taken by Prof. Sohan G Prajapati about the importance of Indian Constitution Day which gave an overview of it. The event ended with the pledge and National Anthem.

Major Outcomes of Event

- Got information about the Indian Constitution.
- Everyone took a pledge to secure Indian Constitution.
- We were glad to know about the amazing facts about our constitution.
- Many important articles were explained in detail.

Glimpse of the Event



[5] “Event on Har Ghar Dhyan” on 29th December, 2022.

Har Ghar Dhyan is an event that falls within Azadi ka Amrit Mahotsav. Har ghar dhyan is an event to motivate everyone towards meditation. Meditation can give you a sense of calm, peace and balance that can benefit both your emotional well-being and your overall health. You can also use it to relax and cope with stress by refocusing your attention on something calming. Meditation can help you learn to stay centered and keep inner peace.

So for this NSS Unit of GEC Patan organized an event “Har Ghar Dhyan” on 29th December, 2022. NSS volunteer Anjali Thakkar hosted this event. She gave some information on meditation and conducted meditation for 15 minutes. Many students and Faculties attended this event and everyone participated in meditation. Everyone felt fresh and a lot of peace after this meditation.

Major Outcomes of Event

- Everyone came to know about the importance and benefits of meditation.
- Everyone got motivated to meditate.

Glimpse of the Event





[6] “Atmanirbhar Bharat” on 29th December, 2022.

On 12 May 2020, our PM Narendra Modi raised a clarion call to the nation giving a kick start to the Atmanirbhar Bharat Abhiyaan (Self announced the Special economic and comprehensive package of INR 20 lakh crores equivalent to 10% of India’s GDP to fight COVID 19 pandemic in India.

On the morning of 29th December 2022 NSS GEC Patan organized an event based on atmanirbhar Bharat. The event began with the NSS song followed by the welcome speech which was given by Helly Pandya. After the energetic welcome speech, we got introduced to the atmanirbhar Bharat mission and its details which were presented by Lalit Mishra. Then our NSS volunteers organized a small drama on atmanirbhar Bharat which opened our eyes to today’s condition in India how the make in India mission would help us and why is it necessary.

Major Outcomes of Event

- All of us got awareness about the importance of self reliant India.
- All Participants will get knowledge about the atmanirbhar Bharat mission launched by the government.
- We developed a spirit to work hard for our nation.

Glimpse of the Event



પાટણની સરકારી ઇજનેરી કોલેજમાં આત્મનિર્ભર ભારત અને સ્વાતંત્રતા સંઘર્ષ કાર્યક્રમ ઉજવાયો

પાટણ સ્વાતંત્રતા સંગ્રામ માં કરાયેલા સંઘર્ષ અને ત્યારથી આજ સુધી ભારત પોતાના બને ઉભુ થયું છે અને આત્મ નિર્ભર બન્યું છે. જે અંગે ની વધુ જાણકારી મળે તે હેતુથી સરકારી ઇજનેરી કોલેજ પાટણમાં કાર્યરત એન.એસ.એસ સુનિત દ્વારા આત્મનિર્ભર ભારત એગે ના કાર્યક્રમ નું આયોજન કરવામાં આવ્યું હતું. આ કાર્યક્રમમાં એન. એસ.એસ.ના સ્વયંસેવકો દ્વારા સુંદર નાટ્ય પ્રસ્તુત

કરીને આત્મનિર્ભરતા તરફ વળવા વિદ્યાર્થીઓને પ્રેરિત કરાયા હતા.

આઝાદી ની ચળવળ માં સ્વતંત્રતા (અનુ.પાન-૨ ઉપર)

ડીસા નેશનલ હાઈવે ઓથોરીટી દ્વારા દબાણો હટાવાયા

ડીસા હાઈવે પર ગાયત્રી મંદિર સર્કલ પાસે ઊભા થયેલા ગેરકાયદેસર દબાણો હટાવવા અનેક વખતની રજૂઆતો બાદ નેશનલ હાઈવે ઓથોરિટી દ્વારા આ દબાણો હટાવાની સુવેશ હાથ ધરવામાં આવી હતી. જોકે

તેમાં માત્ર લારી ગણાઓને ટાર્ગેટ કરતા અને પાકા દબાણદારોને છાવરતા હોવાનો પણ આક્ષેપ સર્જ રહ્યો છે. ડીસા શહેરમાં અને હાઈવે પર છેદા કેટલાય સમયથી ગેરકાયદેસર દબાણોનો રાફડો ફાટ્યો છે અને જ્યાં (અનુ.પાન-૨ ઉપર)



[7] “EVENT ON FREEDOM STRUGGLE” on 29th December, 2022.

The event of freedom struggle is celebrated on 29th December 2022. This event gave many information about freedom struggle that freedom fighters had struggled. We learned how Freedom is earned and cannot be expected to be achieved without making efforts for it. It was started in late 1800s and culminated in India in 1947.

In this event, a speech is given by NSS volunteer which gave a brief the freedom struggle that has been felt by India and after facing how much problem India got freedom. India's freedom Movement wouldn't have been succeeded if our brave freedom fighters had not fought against the Britishers. In this event, Quiz is also held in which many students, professors as well as security guard also participated in this Quiz. Winning certificate and participation certificate of Quiz is provided to all the participants and winners.

Winners of the Quiz

1st	Asim Mondal
2nd	Ankush Kapil
3rd	Patel Mihir

Major Outcomes of Event

- People got description about the freedom struggle of India.
- In Quiz of freedom struggle, many participants got better experience from this quiz.
- All participants including professors felt very excited for this Quiz.

Glimpse of the Event

