

## Principal's message

Dear students and teachers,

It gives me great pleasure to share with you all the news of GECV's outstanding performance at the Inter-zonal Youth Festival, Xitij-2022. I am proud of our students who have showcased their talents and brought accolades to our institution. I congratulate all the winners and participants and hope that they continue to excel in their chosen fields.

I am also delighted to announce that the Institution's Innovation Council (IIC) and the Student Start-up and Innovation Policy (SSIP 2.0) have been instrumental in fostering a culture of innovation and entrepreneurship among our students. The IICHE Student Chapter has organized visits to different industries, providing valuable hands-on learning opportunities to our students. I encourage all our students to take advantage of these initiatives and make the most of them.

At GECV, we believe in providing our students with a holistic learning experience, and our NSS team has been at the forefront of this endeavor. They celebrated India's 75th Independence Day, organized a Garba Night, a pledge-taking ceremony, and a Constitution Day celebration, instilling a sense of pride and responsibility in our students. In addition, various departments of the college have also organized Technical Visits and Hands-On Learning Opportunities, giving our students practical exposure to the latest technologies and trends in their respective fields.

I also take this opportunity to highlight the Azadi ka Amrit Mahotsav Hackathon-2022 Regional Round, which was a resounding success. Our students participated enthusiastically and showcased their innovative ideas and problem-solving skills. Furthermore, the SC ST Cell Seminar on Review of Last Semester Examination Results has been instrumental in providing our students with the necessary guidance and support to excel in their academic pursuits.

Finally, I would like to emphasize our commitment to Faculty Research, Training and Development, which is vital in keeping our faculty up-to-date with the latest developments in their respective fields. I wish all our students and faculty members a productive and fulfilling academic year ahead. I am glad that regular offline education is gaining momentum and we are increasingly becoming accustomed to the pandemic protocol and adopting fitting ways to deal with different variants of Covid like Omicron. Our college has refurbished its facilities, developed SOPs for student safety and are now looking at levelling the learning gaps. It is also time for the educational institutes to get ready to implement the New Education Policy (NEP) 2020.

- Dr. V. S. Purani  
(Principal, GEC Valsad)

## Inter-zonal Youth Festival, Xitij-2022

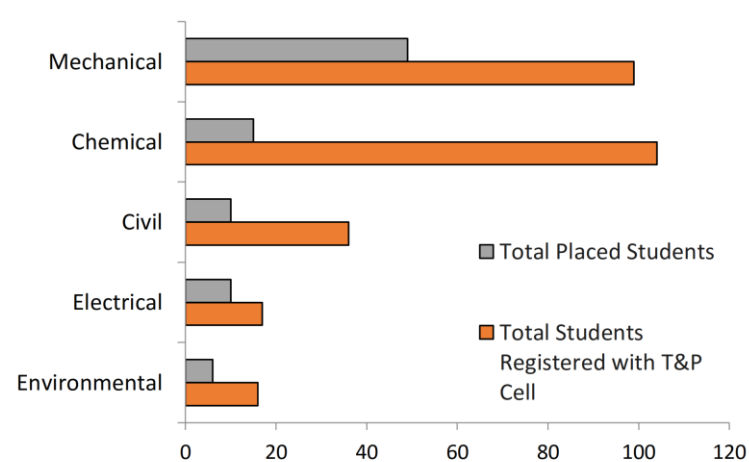
The students of GECV College have performed exceptionally well at the inter-zonal 10th Youth Festival of GTU, Xitij-2022, held from 14<sup>th</sup>-16<sup>th</sup> October 2022 at Ahmedabad. The college has showcased its talent and commitment to excellence in various categories and emerged victorious in most of them. Dr. Pankti Desai, the coordinator, has played a pivotal role in guiding and supporting the participants, contributing to GECV's success at Xitij-2022.

The students of GECV College have secured the Overall Champions title in the Literature category. The winners of the Quiz competition were Prachi Trivedi from the Environmental Engineering Department, Vaishnav Anniyeri from Mechanical Engineering, and Vaibhav Kalsariya from the Chemical Engineering Department. GECV participants in the Instrumental Non-Percussion category demonstrated their musical talent and dedication, securing the 2nd runners-up position by Rajvi Patel from the Chemical Engineering Department. In the Instrumental Percussion category, Kirtan Solanki, a 7th-semester student from the Mechanical Engineering Department, emerged as the winner for Classical Instrumental Solo (percussion) competition. His exceptional performance highlighted his mastery of this art form, showcasing GECV's commitment to nurturing talent and encouraging students to excel in diverse fields. Adithi Pillai from the Environmental Engineering Department was declared the winner in the Poster Making category.

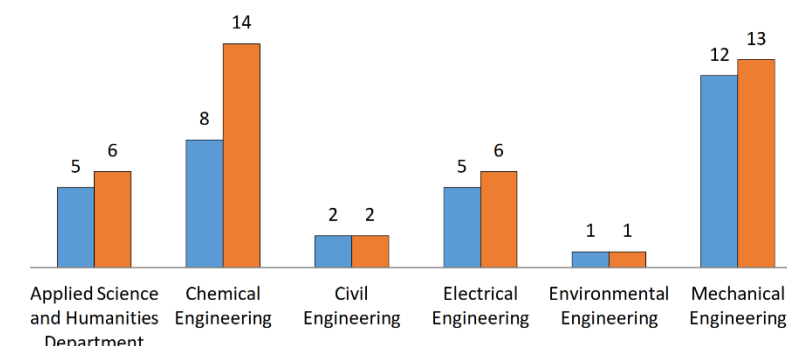


## Training and Placement Cell

Campus Placement for A.Y. 2021-22



Faculty training data for A.Y. 2021-22



The Training and Placement Cell at GEC Valsad is a core area which compliments the efforts of the members of faculty by organizing value-added programmes and providing placement and opportunities to students. The cell continuously coordinates with the various industries and organizations for placement and internship of the students. The T&P Cell conducts various value added programmes for the students, which supplement the University Syllabi. The learning programs are conducted by in-house faculties, industry experts, and subscription based globally reputed MooC platforms like EdX.

The T&P Cell team, led by Prof. S. T. Patel (TPO) and representatives across all departments including Prof. V. S. Patel, Dr. S. K. Srivastava, Prof. R. M. Kudatarkar, Prof. D. N. Tandel, Prof. N. M. Patel, Prof. M. N. Patel and student volunteers, worked hard to achieve excellence in placement of students year by year. In A.Y. 2021-22, total 30% of registered students are campus placed with highest package of 7.5 lacs/annum.

## SC ST Cell

On 21/12/2022, the SC ST Cell of the institute organized a seminar on "Review of last semester examination result" with the aim of reviewing the academic progress of SC ST students and encouraging them to improve their future exam results. The seminar was conducted by Prof. N. S. Patel and Prof. S. K. Patel, and 80 students attended.

During the seminar, each student was given ample time to describe the reason behind their performance in the last semester exam and report any problems faced by them. The faculty mentors discussed each problem in detail, with the aim of resolving them in future. All students were instructed to write down their learning from the session and email it to the committee.

The SC ST Cell committee members were informed to assist the students and help them improve their overall academic performance. The seminar provided a valuable opportunity for SC ST students to reflect on their academic progress and receive guidance on how to improve in the future.

The Institution's Innovation Council (IIC) at GECV has achieved a significant accomplishment by receiving a 3.5-star rating in the IIC-2021-22 ranking, placing them among the top 10 Government and Grant-in-Aid Institutes in the Gujarat zone. This achievement was made possible by the well-planned and organized activities conducted by IIC in accordance with the schedule provided by the Ministry of Education, Government of India.

Dr. V. S. Purani, the Head of the Institute, congratulated the IIC President, Dr. Rajesh Malan, Convener Prof. Rahul Prajapati, SSIP coordinator Dr. Kashyap Mokariya, and the entire team of IIC-SSIP for their national-level achievement. The IIC-GECV aims to enhance students' skill development beyond the curriculum, preparing them for new career opportunities in the fields of innovation, start-ups, and entrepreneurship. Two new faculty members, Prof. Jinal Patel and Dr. Yogendra Tandel, have joined the team to further this objective.

Various events and activities have been organized by IIC-GECV to provide a platform for holistic student development, making them self-sufficient through technical skill development. Under the IIC, several programs have been organized at the institute. The IIC-SSIP also organized a workshop on "Entrepreneurship as a career opportunity in the field of Opto-electronic semiconductor technology," on 25th Nov, 2022, which was funded by RUSA-GECV and coordinated by Dr. Rajesh Malan and Prof. Rahul Prajapati. The talk was delivered by Mr. Sanjay Godvani, L. R. Electro Rajkot. L. R. Electro is the leading manufacturing brand of various types of LED lights. The institute also arranged a session by Dr. Vivekananda D., Professor at Electrical and EC department, IIT Mumbai, on National Education Day, (11th November 2022) where he motivated the engineering aspirants of the institute to work hard and be sincere in their studies.



A screenshot of the IIC Annual Performance 2022



Talk delivered by Mr. Sanjay Godvani, L. R. Electro Rajkot



Talk delivered by Dr. Vivekananda D, Professor, IIT Mumbai

GEC Valsad, a recipient of the State Government's Student Start-up and Innovation Policy (SSIP 2.0), has successfully implemented the policy at the institute level. As part of the initiative, the institute called for innovative proposals from students across all departments to develop their ideas from proof-of-concept to prototype/IPR. After careful evaluation by the jury members, Shri U. K. Jethva and Shri Jitendra Vyas, total 07 proposals were selected from the college and will be supported through mentoring and financing under SSIP, with an approximate amount of Rs. 1.63 lakh.

As part of its initiative to promote innovation, start-up, and entrepreneurship, the institute organized sessions on "Save Fuel Save Money" and "Industrial Controllers" on 23/12/2022. The former session highlighted the importance of fuel and energy for the country's future and discussed the role of Petroleum Conservation Research Association (PCRA) in promoting energy efficiency in various sectors of the economy was delivered by Shri Jitendra Vyas. The latter session focused on the concept of industrial control systems and associated instrumentation used for industrial process control. The sessions provided an opportunity for the students to learn about the latest developments in these areas and their practical applications in various industries was delivered by Shri U K Jethwa, Ex V.P Reliance Industries limited.

| Sr. No.      | Department    | Number of projects proposal presented at dept. level | Number of projects proposal presented at Inst. level scrutiny | Number of Proposals suggested for support |
|--------------|---------------|--|---|---|
| 1            | Chemical      | 09   | 6   | 2   |
| 2            | Civil         | 02   | 0   | 0   |
| 3            | Electrical    | 04   | 3   | 2   |
| 4            | Environmental | 04   | 2   | 1   |
| 5            | Mechanical    | 15   | 9   | 2   |
| 6            | ASH           | 01   | 1   | 0   |
| <b>Total</b> |               | <b>35</b>  | <b>21</b>   | <b>7</b>                                  |



**NSS and Azadi ka Amrut Mahotsav**

The NSS team of the Government Engineering College in Valsad celebrated India's 75th Independence Day by organizing various events under the banner Azadi ka Amrut Mahotsav. The events focused on promoting social awareness, teamwork, and leadership skills among the students. The college organized a Garba Night celebration on October 1, 2022, which saw the participation of 425 students, and a Thalassemia, Eyes, and Dental Check-up Camp on October 7, 2022, which was attended by 463 students.

The college celebrated National Unity Day from October 28 to October 31, 2022, and a pledge-taking ceremony was held on October 28, 2022, which was attended by 72 faculty and staff members. The NSS team of the college also organized a Letter Writing Movement and a Slogan-Making Event from November 9, 2022, to encourage voting awareness for the upcoming Gujarat State Election of 2022, with 9 students participating in the slogan-making event and 17 students participating in the Letter Writing Movement.

As part of the Azadi Ka Amrut Mahotsav Celebration, a Constitution Day celebration was organized at the G-120 Seminar Hall, Department of Civil Engineering. The seminar was attended by 153 students, and 51 students participated in the online preamble reading competition, and 51 students participated in the online quiz. Overall, the events were successful in promoting leadership and teamwork skills among students, as well as social awareness, unity, and the celebration of India's independence.



Glimpse of Navratri/Garba celebration under the aegis of Azadi ka Amrut



Glimpse of Thalassemia, Eyes, and Dental Check-up Camp

## Industrial Visit:

1. The IICHE Student Chapter (for Chemical Engineering Dept.) organized visits to three industries for Chemical Engineering students. The industries visited were the Common Effluent Treatment Plant (CETP), Fine Hydrochem Pvt Ltd, and Industrial Boiler Ltd, all located in Vapi on 4/10/2022. During the visit to CETP, students were introduced to the process of effluent treatment used in various industries in Vapi. They also had the opportunity to observe different unit operations and unit processes at Fine Hydrochem Pvt Ltd. Finally, the students visited the large-scale boiler units at Industrial Boiler Ltd.
2. The Department of Civil Engineering organized technical visits to the Sardar Sarovar dam site on 6/10/2022, where 117 civil engineering students from 5<sup>th</sup> and 7<sup>th</sup> semesters had the opportunity to gain practical insights into the workings of a dam. The students were able to observe the actual structures and understand the various design considerations involved in constructing a dam, thanks to the technical staff's detailed explanation. The visit was informative and beneficial for the students, helping them to relate their classroom learning to real-life applications. Faculties who have also joined the visit are: Prof. Priyanka S. Patel, Prof. Neha M. Patel, Prof. Soham H. Mistry and Prof. Abhishek H. Rana.
3. The Department of Civil Engineering organized technical visits to Valsad railway station on 18/10/2022, where 61 students from the 5<sup>th</sup> semester learned about the various aspects of railway engineering, including track construction, signaling mechanisms, and controlling systems. The visit included sections such as Loco shed, Railway track, Platform, Yard, and Signal controlling tower. The faculty members, Prof. Dhaval T. Barot and Prof. Abhishek H. Rana, shared their knowledge and expertise with the students, giving them valuable insights into the world of railway engineering.



Industries visit at Fine Hydrochem Pvt Ltd,



Industries visit at Industrial Boiler Ltd, Vapi



Industries visit at Common Effluent Treatment Plant (CETP), Vapi



Industries visit at Sardar Sarovar Dam



Industries visit at Valsad railway station

## Azadi ka Amrit Mahotsav Hackathon 2022 - Regional Round

The Mechanical, Chemical and Environmental dept. sent total 20 teams to participate in the regional round of Azadi ka Amrit Mahotsav Hackathon-2022. The event was held at AURO University, Surat on 7<sup>th</sup> and 8<sup>th</sup> October 2022. The teams were given their selected problem statements and worked continuously for 36 hours during the two days. The teams performed exceptionally well, and their group leaders and members answered all the questions asked by the jury.

The hard work and dedication of the students paid off, as 02 teams from the Mechanical, 03 teams from the Chemical and 01 team from the Environmental dept. were selected for the final round. The achievement is a source of pride for the department and reflects the talent and skills of the students and their faculty mentors.

## Webinar Expert Lecture/Talk delivered by Faculty Members

- ✓ An online talk was delivered by Dr. Rajesh Malan, Applied Science and Hum Dept. on "Physics of Advanced Engineering Materials" organized by Dr. S. & S. S. Gandhi Government Engineering College, Surat on 30/12/2022.
- ✓ An invited talk was delivered by Dr. Rajesh Malan, Applied Science and Hum Dept. on 'Start-up India" at Government Engineering College Daman.
- ✓ An Invited Talk was delivered by Dr Kashyap L. Mokariya, Electrical Engg. Dept. on "Electric vehicles challenges and opportunities" Online Mode in GUJCOST & DST Sponsored Two-day National Level Workshop at Parul University on 29/12/2022.
- ✓ A talk was delivered by Dr. B. R. Sudani, Asst. Professor Chemistry, on "Selection process of innovative science fair models" organized by GCERT and DEO Valsad on 13/12/2022.
- ✓ A talk was delivered by Dr. B. R. Sudani, Asst. Professor Chemistry, on "Voter awareness and Matdan Sankalp" organized by Veer Narmad South Gujarat University, at Vapi on 12/11/2022.
- ✓ A talk was delivered by Dr. B. R. Sudani, Asst. Professor Chemistry, on "Think Tank for National Unity and Concept of Akhand Bharat" organized by Veer Narmad South Gujarat University, at Vapi on 17/10/2022.
- ✓ A talk was delivered by Dr. B. R. Sudani, Asst. Professor Chemistry, on "How to prepare effective science project; discussion on importance of SDGs for the better future" organized by GCERT and DIET Valsad on 16/11/2022.
- ✓ A talk was delivered by Dr. B. R. Sudani, Asst. Professor Chemistry, on "Prepare effective and innovative science project ideas among Science teachers from government institutions" organized by GCERT and DIET Valsad on 17/11/2022.

### Book Chapter/Paper Publication by Faculty Members

- ✓ Dr. S. K. Srivastava, Assistant Professor, Chemical Engg. Dept., has presented paper on "Application of green algae towards CO2 sequestration and solid fuel production using photosynthesis coupled with torrefaction" at National Conference on Environmental and Industrial Biotechnology (NCEIB-2022) on November 10-12, 2022 organized by Department of Biotechnology, Dr. Ambedkar Institute of Technology for Handicapped, Kanpur, India.
- ✓ Dr. S. K. Srivastava, Assistant Professor, Chemical Engg. Dept., has presented paper on "A novel route for the synthesis of cellulose and starch based bio-plastic for packaging purpose" at National Conference on Environmental and Industrial Biotechnology (NCEIB-2022) on November 10-12, 2022 organized by Department of Biotechnology, Dr. Ambedkar Institute of Technology for Handicapped, Kanpur, India.
- ✓ Prof. Khyati K. Modi, Env. Engg. Dept., presented a paper titled "Working of a Modified Rotating Biological Contractor (RBC) for Enhanced Reclamation of Dye Wastewater" in an International Conference on Sustainability in chemical processes through Digitilization, Artificial Intelligence and Green Chemistry, December 2022, organized by Harcourt Butler Technical University, Kanpur-208002.
- ✓ Dr Kashyap L. Mokariya, Electrical Engg. Dept as a co-author presented a paper titled "Prediction of EV charging and Impact analysis on Indian Grid" at PIETDS Parul University, on 11/11/2022.
- ✓ Dr Kashyap L. Mokariya, Electrical Engg. Dept as a co-author presented a paper titled "Energy Efficiency Enhancement in Pumping system boosting Nations Economy" on 29th December at ICETET22 International Conference at Laxmi Sarigam on 29/12/2022.

### Patent/Design by Faculty Members

- ✓ A Design (No. 368276-001) entitled "Box type Solar cooker" by Prof H A Vaidya and Dr. S A Channiwala from SVNIT, Surat is accepted by Controller General Patents, Design, and Trademarks, department of industrial policy and promotion, ministry of commerce and industry, India.

### Other achievements by Faculties

- ✓ A research paper is reviewed by Prof H A Vaidya in International Journal of Thermofluids.
- ✓ Prof. B G Patel, Assistant Professor in Mechanical Engineering represented Gujarat Secretariat in the "ALL INDIA CIVIL SERVICES CARROM TOURNAMENT" for the year 2022-23, held at Exhibition Hall Hapaniya Ground, Agartala, Tripura during 16th to 20th November 2022.



#### Faculty transferred from GECV

| Name of Faculty     | Transferred to     | Department        | Date of Relieving |
|---------------------|--------------------|-------------------|-------------------|
| Prof. H. S. Wani    | VGEC Chandkheda    | Power Electronics | 31/10/2022        |
| Dr. B. K. Seth      | VGEC Chandkheda    | Chemical Engg.    | 20/10/2022        |
| Prof. Jalpa Shah    | L.D.C.E. Ahmedabad | Chemical Engg.    | 16/12/2022        |
| Dr. N. J. Modi      | GEC Gandhinagar    | Chemistry         | 31/10/2022        |
| Prof. H N Lakdawala | GEC Surat          | Mechanical Engg.  | 30/10/2022        |

#### Faculty left service

| Name of Faculty    | Designation              | Department  | Date of resignation |
|--------------------|--------------------------|-------------|---------------------|
| Prof. S. H. Mistry | Asst. Prof (Contractual) | Civil Engg. | 12/12/2022          |

#### Faculty transferred to GECV

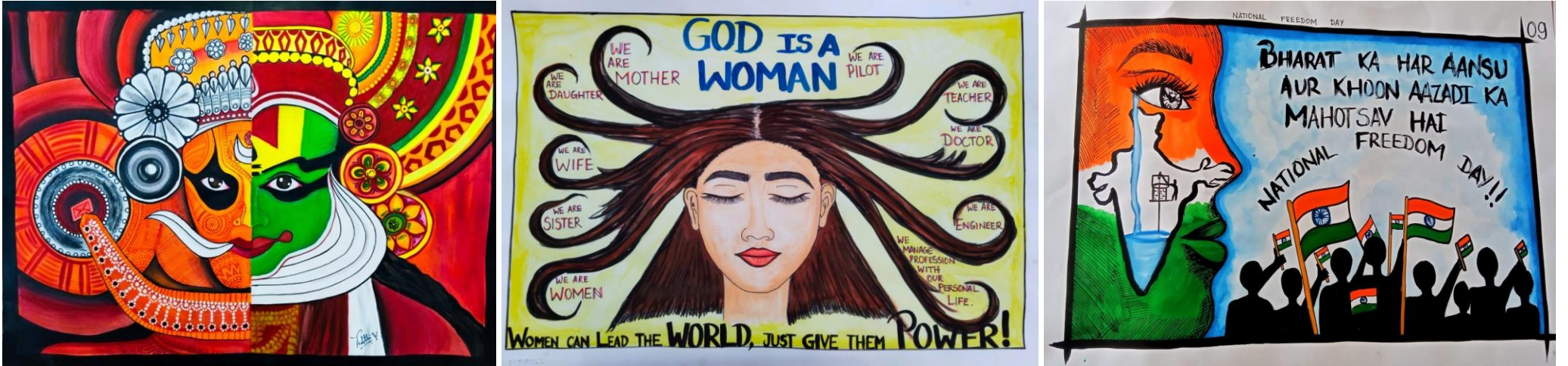
| Name of Faculty       | Transferred from | Department          | Date of Joining |
|-----------------------|------------------|---------------------|-----------------|
| Prof. M. A. Chaudhari | GEC Bhuj         | Electrical Engg.    | 01/11/2022      |
| Prof. A. S. Mishal    | GEC Dahod        | Electrical Engg.    | 02/11/2022      |
| Dr. N. R. Vaghela     | VGEC Chandkheda  | Chemical Engg.      | 20/10/2022      |
| Dr. Shashi Ranga      | GEC Gandhinagar  | Chemistry           | 13/12/2022      |
| Prof. B. C. Patel     | GEC Surat        | Mechanical Engg.    | 01/11/2022      |
| Prof. K. A. Patel     | SSEC Bhavnagar   | Mechanical Engg.    | 01/11/2022      |
| Prof. J. Y. Patel     | GEC Bhuj         | Environmental Engg. | 01/11/2022      |

## STUDENTS CREATIVITY

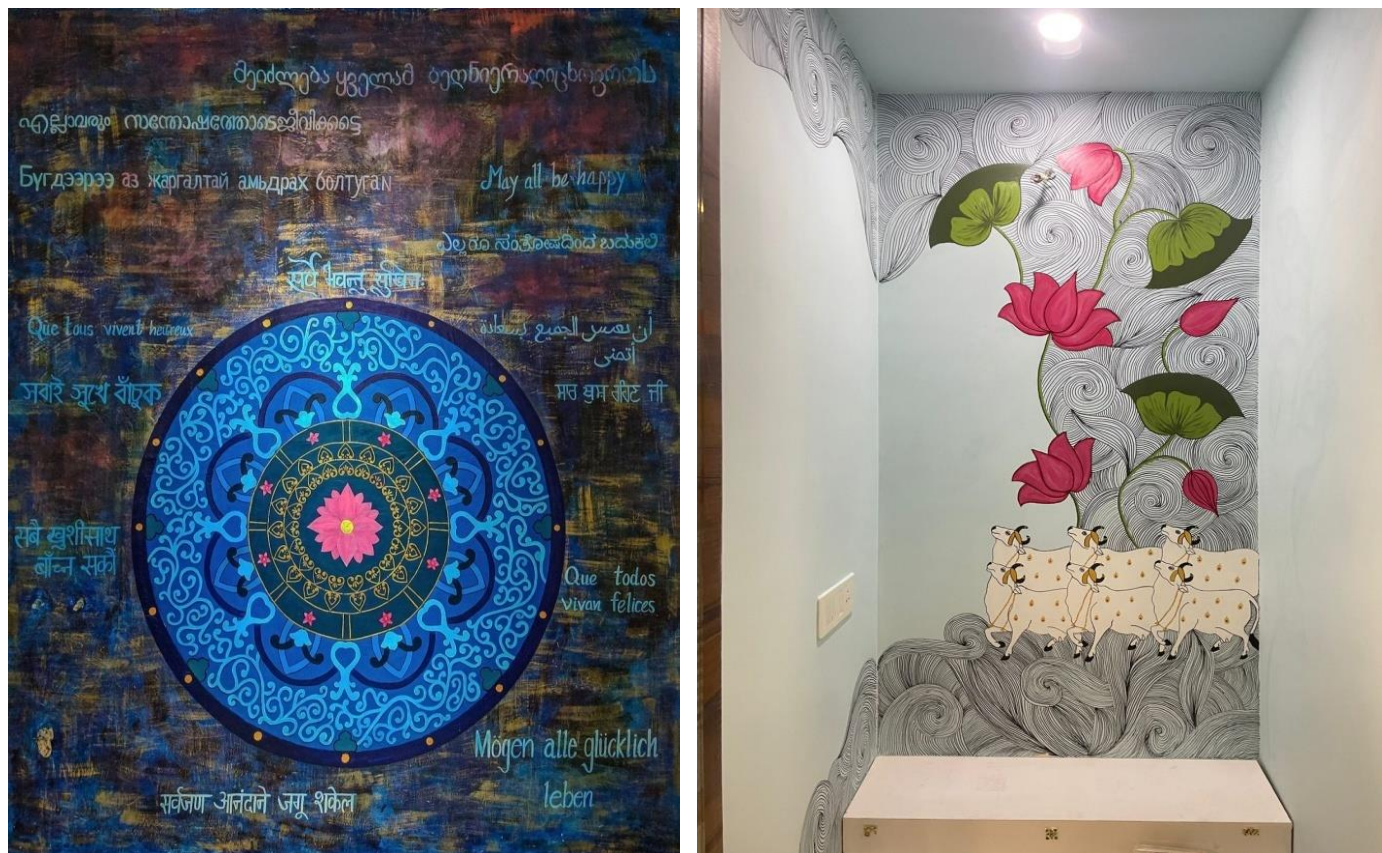
### A Hindi Poem by Jash Shah (210190105132) 3rd Semester Chemical Engineering

कर रहा था ईश्वर को धन्यवाद, अच्छा रिजल्ट आने के लिए,  
 मुझे क्या पता था ये पैगाम है, अपनो से दूर जाने के लिए ॥  
 परिवार को समझाया, सबको मनाया, उनसे दूर जाने के लिए;  
 सोचा न था की कभी पढ़ाई छुड़वाएगी घर, घर चलाने के लिए ॥  
 मां ने खुद को संभालते हुए, पिता ने हौसला बढ़ाते हुए,  
 उन्होंने मुझको खुद से दूर भेजा, छुपकर आंसू गिराते हुए ॥  
 जाने से पहले दोस्तो से मिला, उनसे बातें कर मन हल्का किया;  
 फिर हर छुट्टियों मिलने का (जूठा ही सही,) एक वादा किया ॥  
 मैंने सब दोस्तो को गले लगाकर कहा "फिर मिलेंगे",  
 धीरे से खुद को कहा "अगर मिल न पाए तो यादों में ही जी लेंगे" ॥  
 जिस लड़की से प्यार किया, जिसको हर सांस में जिया,  
 उसको अपने दिल की बात कहे बिना ही चल दिया ॥  
 देखते ही देखते स्कूल का मीठा शोर छूट गया;  
 पता ही नहीं चला कब बचपन का वो दौर छूट गया ॥  
 अब शहर में आके बस गया और यही का मैं हो गया;  
 जिंदगी की भागदौड़ में जैसे मैं खुद ही खुद से खो गया ॥  
 मां की रोटी छूट गई, मीठी नींद जैसे टूट गई;  
 होटल के पकवानों से तो जैसे मेरी भूख ही रूठ गई ॥  
 आज भी अपने गांव की याद आती है, नींद में भी सताती है;  
 जितनी कोशिश करूं भूलने की, उतना ज्यादा रुलाती है ॥  
 फिर भी नहीं छोड़ सकता साथ, इस बेरूखी जिंदगी का;  
 क्योंकि यही सहारा है मेरे उज्ज्वल भविष्य का ॥  
 हकीकत से अनजान नहीं हूँ, सपनो में जीनेवाला इंसान नहीं हूँ;  
 फिर भी मन मेरा सोचे .....  
 काश वो पल फिर से आए, वो वक्त खुद को दोहराएं;  
 हम सब मिलकर फिर से वही मासूम बच्चे बन जाए ॥

Posters by Ms. Adithi (200190113002), Environmental Engg. Dept



Wall painting and Rangoli by Ms. Dhanashree Goti (190190113014), Environmental Engg. Dept



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