Welcome Note

Dear students,

I would like to extend a warm welcome to all the students who have been admitted into the various degree programmes of GEC Valsad. I congratulate you as you are going to embark upon an essential phase of your academic life in the world of learning that will prepare you to succeed in an increasingly competitive career and life ahead.

GEC Valsad has been the first choice of meritorious students in the South Gujarat Region as the students are nurtured with life skills and academic expertise in their chosen domains. The green campus with the vibrant academic values at GEC Valsad promises a barrier-free environment to students to excel their potential.

With an integrated objective of a career with character-building for the students, GECV has adhered to the student-centric approach both in classroom teaching and in laboratory tasks.

In spite of the present pandemic scenario, indefatigable efforts have been put forward during the lockdown and post-lockdown periods to impart education to the students of the institute using online mode in teaching, learning and assessing processes. Virtual labs are the essential tools for online practical tasks realization. We all at GECV are determined to facilitate you in the journey of your success provided that you inculcate basic values like hardwork, commitment, punctuality, sincerity in your academic and non-academic tasks, participation in various activities of the institute. Much of your success in your journey through life will depend on the effort and the choices you make now.

Best Wishes,

Dr. V. S. Purani (Principal)

Virtual Incubation Centre: An Initiative

GEC Valsad is planning to establish a setup under the title “Virtual Incubation Centre” with a purpose to provide an exposure to the knowledge on creativity, innovation as well as professional & entrepreneur skills with all the available support and sources for the emerging start-ups and also to assist the registered students to initiate their own ventures. The executive committee of veteran mentors for support and guidance consists of,

Dr. Neha Sharma (Professor-Microbiology, Maharishi Markandeshwar Medical College and Hospital (MMMCH), Maharishi Markandeshwar University (Solan H.P.) BRICS-Young Scientist Forum 2019-Alumni Israel, The Start Up Nation)
Dr. J. C. Shukla (CEO / Managing Director at Nahak Overseas Limited, Vadodara)
Mr. Shankar Hemaday (Dr. Shankar Hammady, a founder and CEO of Green Horizon, San Francisco, USA)
Dr. H. V. Trivedi (former principal of LD College of Engineering and Director of Nirma Inst. of Tech.)

The chief objective of this initiative is to prepare one thousand self-employed youth to contribute to the quality employment generation of the state.

Independence Day celebration - 2020

The Tricolour was hoisted by the principal Dr. V. S. Purani celebrating national festival. The Independence Day on 15th August, 2020 in the college campus in the presence of faculty and staff. Dr. V. S. Purani emphasised on the observance of one’s duty with dedication and commitment in this pandemic situation ensuring safety. An online “Patriotic Poem Writing Competition” was also organised for students

V-Labs (Virtual Lab)

To provide remote access of Labs in various disciplines of Science and Engineering, Ministry of Human Resources Department has started Virtual Lab projects under National Mission on Education through ICT. A virtual laboratory is a tool for distance learning and/or experimentation that allows people to share knowledge, data, voice, video, tools and many other resources. It provides a suitable environment to extend, integrate, refine, assist the learning and/or experimentation process of many subjects, thus contributing to an increase of the effectiveness of scientific research and widening the use of scarce or costly equipment. Our Institute is selected as a Nodal Centre under IIT, Bombay for conducting Vlabs activities. Due to current COVID-19 pandemic, our institute has taken various steps like organizing online lectures, webinars, virtual labs etc. to continue the teaching learning process. During current semester, 2295 experiments were performed by 1065 students of the institute on VLAB platform from their home.

The Expert Talk by the Principal

The principal Dr. V. S. Purani addressed the faculty as an expert in a national-level webinar on “Be Your Own Boss Through Creativity, Innovation and Startup” which was jointly organized by Student Startup and Innovation Policy (SSID) & Startup and Entrepreneurship Council (SEC), Veer Narmad South Gujarat University, Surat on September 18, 2020.
IEI Students’ Chapter National level Webinars

In order to provide the knowledge on cutting edge technologies, two national level webinars were arranged by Mechanical Engineering Department and IEI students’ chapter in collaboration with Elite Techno Groups on Indian Automotive Industry - Job & Tech and Demand Shift for Skilled Engineers in Electric Vehicles (EV) Industry on 15th and 16th September, 2020, respectively. The session experts Mr. Sundar Iyer (R&D) and Mr. Rajath Jain (Powertrain and Battery Expert) discussed the topics explicitly on Youtube live platform. The focus of the webinars was on the importance of vehicle dynamics and design, expectations of Industry from a Fresher, how could an undergraduate engineer be Industry Ready to meet the expectations from Industry for a Fresher, and the role of Chemical engineers in Environment Management.

Power of Positive Attitude

The webinar was organised on “Power of Positive Attitude” by IEI Students’ Chapter GEC Valsad for all the students and teachers of the institute on 19th Sept, 2020. The sessions were engaged by the veteran Dr. H. V. Trivedi, Chairman SOPTER, (Former Director, NirmaInst.Former Principal, LDBE, Ahmedabad) & Dr. Dhalav Pujara, Head and Professor, Department of E & C Engg., Institute of Technology, Nirma University, Ahmedabad. Prof. S. V. Damaniya (HOD, Mechanical) coordinated the webinar.

Expert Talks

- An expert lecture was organized on Activities on Highway Design Group on 27th July 2020 by Civil Engg. Dept. The expert Ms. Sushma Piyaja (GM, Design Head highways, Sadbhav Engineering Ltd., Ahmedabad) guided the students about the core features of Highway Design.
- A Session on “Financial Engineering” was conducted by Dr. Dhimen Jani (Head of Dept. BBA, Dolat Ushand Dhiruo-Saria Institute of Management and Commerce, Valsad) on 27/07/2020 for Civil Engineering students.
- The Mechanical Engineering Department, GEC Valsad organised an expert lecture on “Construction and Application of Heat Exchangers” for the fifth and seventh semester students to enhance their technical knowledge regarding industrial use of heat exchangers in different sectors like dairy, refineries, petrochemicals, pharmaceuticals etc. The industrial expert, Mr. Akhilesh Patel (R&D division, IDMC LTD, New V. V. Nagar, Anand) delivered the talk using Jio Meet platform on 26th September, 2020.
- Prof. R. C. Malan (Physics) delivered an online expert talk on “Dr. Vikram Sarabhai: 100 Years of Success” organised by District Science Centre, Dharampur on 14th August, 2020 on the occasion of the birth anniversary of Dr. Vikram Sarabhai. Prof. Malan highlighted India’s journey of space research with respect to the essential contribution made by Dr. Vikram Sarabhai.

Contribution to MAY

The main objective of the scheme - Mukyamantri Apprentice Ship Yojana (MAY) is to train the youth in various occupations of the various units in the State as per the demand of the industry which will result into increase in employment opportunities, skilled artisans and quality of production in the industrial unit.

All the faculties of GEC Valsad put forward their best efforts to spread the awareness, sensitise and facilitate nearby colleges, schools, industries personnel regarding a flagship project of MAY executed by Government of Gujarat. Total 86 Apprentice contracts are generated with various organisations till now.

Skill Development for Institute Faculty

All the faculty of the institute attended and completed the “Online Certificate Course on Intellectual Property Rights” organized by Education Department, Government of Gujarat (under I-Hub & SSIP) from 07/07/2020 to 25/09/2020. The faculty gained the insight regarding registration and protection of various forms of IPRs i.e. Patent, Trademark, Industrial Design, Copy Right, Geographical Indication etc. and how to manage them along with the process of commercialization.

MoU Signed

An MoU has been generated under Vrundavan Gam Yojana between GEC Valsad and District Development Authority, Valsad on 13/03/2020 to assist in providing basic lacking facilities in selected villages in collaboration with architect and engineering colleges.

SSIP Project Scrutiny

Keeping in view the present Covid-19 situation, the online project review meeting held during 03-09-2020 to 08-09-2020 under the chairmanship of Principal through google meet for the scrutiny of new SSIP projects for the year 2020-21. The objective of the meeting was to scrutinize the proposals which were technically strong and with an ability to be developed up to PoC / Patent / start-up level.

During the five days scrutiny meetings, 67 proposals were selected at department level and presented online for the SSIP funding support at institute level by each group of students in front of Principal, Jury members and other meeting attendees. After deliberation and discussion with students during presentation, suggestions from jury members during presentation and after reviewing detail proposals out of 67 projects proposals presented as SSIP POC projects, the committee found 35 projects suitable with the possibility of further development.

Role of Chemical Engineers in Environment Management

A Webinar on “The role of Chemical engineers in Environment management” was organised for the students by Chemical dept. on 22nd Sept., 2020. The expert speaker Mr. Parshu Chaudha (Unit head & Deputy Environment Engineer, GEMI, Gandhinagar) highlighted the areas and opportunities for chemical engineers to contribute to the field of environment.

Faculty Achievements

- A Patent application was filed by Dr. B K Sheth and Dr. N. M. Patel (Chemical Engg.) on “Air Cooling using Evaporative Cooling of water through Canvas Tubes” on 21st Sept., 2020 with the Application Ref Number 20202040732.
- Dr. B. R. Sudani (Chemistry) delivered an expert lecture on “Empowering Teachers for Sustainable Development through Educational Innovations” on 20th Sept., 2020 under Shiksha Shilpi Program, an initiative of the Vigyan Bharati towards continuing education and orientation program for teachers in the field of Science and Mathematics.
- Prof. Bhavesh B. Rana (English) completed his Ph.D in July 2020 in the domain of Humanities-English from Gujarat Technological University, Ahmedabad under the supervision of Dr. Seema Gida (Associate Professor & Head of English Dept., The Late M. J. Kundalia Arts and Commerce Mahila College, Rajkot). He carried out the research on “Factors Hindering the Development of Speaking Skill of Degree Engineering Students of South Gujarat: An Empirical Study.” Dr. Rana is also selected as a translator by AICTE for translating online NPTEL courses to regional language.
- Prof. H. M Jarwala (Chemical) has been nominated as a translator by NPTEL in the second quarter again for their new lecture series of chemical engineering subjects.
- Prof. Hemanshu K. Rana attended an online STTPs on “Research Paper Writing” and “Data analysis in MS Excel” offered by REST Society for Research International.
- Prof. Solham H. Mistry, Prof. Neha M. Patel, Prof. Dhaval T. Barot, Prof. Hemanshu K. Rana, Prof. Devendra J. Patel from Civil Dept attended the STTP on Urban Heritage Conservation: Issues and Challenges organised by SVNIT, Surat.
- Prof. Kaval M. Tandel (Civil) attended the online FDP on ‘Green Technology and Sustainability Engineering’ offered byATAL Academy.
- Prof. Jitendra. Jadav, Dr. Bhavesh B. Rana, Prof. Nil Pragjapati, Prof. Anjali Pragjapati and Prof. Ravi Patel participated in webinars organised under Unnat Bharat Abhiyan to understand the various aspects of UBA programme and the ways of implementing the activities under the said programme.

Faculty Joined

- Prof. & Head of Chem. Engg., Dr. N. M. Patel has been transferred from VGC, Chandkheda on 27/08/2020. He has done his Ph.D. in Chemical Engg., from IIT Gandhinagar and M. Tech. in Chemical Engg., from IIT Bombay, Mumbai. He has a wide experience of almost 30 years of teaching and research in various government engineering institutions under DTE. He has filled four patents and various research publications/conferences to his credit.
- Prof. Jalpa Shah (Chemical) has been transferred from VGC, Chandkheda joined Government Engg. College, Valsad as on 28/08/2020. She has about 10 years of teaching experience in academics and 2 years of Industrial experience in her field. She has guided a number of undergraduate and postgraduate Projects/Seminars, with publications in national and international journals and conferences to her credit.
Online Teaching-Learning Process: A Novel Experience
Dr. N M Patel

(Professor & Head, Chemical Engg. Dept.)

Online platforms are very useful and convenient for teaching-learning process, for both students and faculty. These tools when used along with digital tools like writing tab they become more effective. The feature of oral and visual communications are very well incorporated in these online conferencing/teaching tools. Availability of resources like laptop/mobile with good internet data connectivity limits effective communications in online mode. Student put video off while attending the online class to save internet data. The onesided communication in online class hampers the effectiveness of communication. The missing part in online teaching learning process is connectedness of teacher with student and among students. I personally feel that Morphic field of the class which connects faculty and student is not created in online mode. The Morphic field of the class also contributes to the teaching learning process.

Online Education: A Blessings in Disguise
Dr. K L Mokarya (HOD, Electrical Engg. Dept.)

‘Necessity is the mother of all inventions and blessings in disguise’ slogan fits very well when it comes to review the activities of online education delivery (E-learning) in covid-19 pandemic. When something has to be done together by everyone round the globe accepted its fatal effects and the journey still continues. With a lot of advantages, it does have some drawbacks too. But, it’s always better to look at the positive and keep its scale high.

Online Academics: The Need of Time
Prof. S. V. Damania

(Head, Academics and Mech. Engg. Dept.)

Due to prevailing COVID-19 situation, conventional classroom teaching was not possible so the Teaching-Learning activities were shifted on online platform. It was really challenging task for teachers as well as for students to get acquainted with new medium of teaching. Teachers and students have explored the capabilities of new online software and mobile apps for the online academics. Execution of almost all academic activities has been changed compared to conventional classroom activities. Online courses use learning management systems to deliver course content, allowing students to submit assignments and communicate with peers and professors. Teachers and students can see grades, create an academic portfolio, and keep up with deadlines with a calendar. After implementation of online teaching, few advantages of online teaching have been experienced during last few months.

Advantages

1. Geographical Flexibility:
   - The primary benefit of online learning involves scheduling flexibility, as physical presence in classroom is not mandatory so teachers and students can schedule the class as per their convenience.
2. More Comfortable Learning Environment:
   - This advantage of online learning allows students to study in the environment that best suits them. Lower Total Costs:
   - Free e-learning content, digital textbooks and free learning aids are available online to facilitate the teaching learning process.
3. No need to worry about travel time, which is very useful in the current situation of work from home.
4. Avoidance of Rubbish:
   - The online platform helps to avoid the effects of physical presence in classroom.
5. Easy Access to Resources:
   - The online platform provides easy access to resources such as digital textbooks, videos, and other learning materials.
6. Increased Engagement:
   - Online platforms encourage active participation and engagement, allowing students to ask questions and receive feedback in real-time.
7. Accessibility to International Resources:
   - Online courses provide access to a wide range of international resources, including video lectures by experts from around the world.
8. Improved Flexibility:
   - Online learning allows for flexible scheduling and pacing, accommodating different learning styles and paces.
9. Reduced Costs:
   - The cost of online education, including textbooks and other learning materials, is often lower than traditional education.

Disadvantages

1. Reduced Social Interaction:
   - Online education may lack the social interaction that is present in traditional classroom settings.
2. Reduced Interaction:
   - Online teaching platforms may make it difficult for students to interact with each other and their teachers.
3. Tech-Savvy:
   - Online platforms require a certain level of technical proficiency from students.
4. Reduced Feedback:
   - Online teachers may not receive as much feedback from students as in traditional classrooms.
5. Reduced Hands-On Experience:
   - Online education may not provide the same level of hands-on experience as traditional education.

Self-discipline and time management skills are always at play when it comes to learning, online learning involves less guidance from an instructor than traditional learning.

Reduces social interaction: Face-to-face interactions are a must to bring the material to life. Nevertheless, it is possible to bring more social interaction to online learning through competition, scheduled Q&A sessions with an instructor, and discussion channels.

Net suitable for every topic: Complex topics,-operative techniques, and practices that require a physical environment are best conducted in person.

No hands-on learning: E-learning cannot replace the knowledge that comes through hands-on experience. Online learning is often theory-based and lacks practice-based learning. Theoretical knowledge refers to facts, theories, and reasoning whereas practical knowledge is based on hands-on endeavours and tasks.

Dependency on technology: Everyone has integrated technology into their daily routine. Many students do not have convenient access to electronic devices and the internet.

The Positive and Negative of Virtual Academics
Prof. D. J. Patel (HOD, Civil Engg. Dept.)

The Covid-19 pandemic has resulted in the closure of institute. Education has changed dramatically over the last three months, with a considerable rise of e-learning, whereby teaching is executed remotely and on digital platforms. We are organizing online classes via Microsoft team digital platform, is really helpful for the students and teachers to communicate with each other and to share knowledge. No doubt that maximum student is well connected and academic has been accomplished through this digital platform.

In online classroom system Microsoft teams, students have access to all relevant information at one platform. Teachers can easily share all useful information over the internet and keep it securely preserved in an electronic archive. Not only studies but various other extra-curricular activities including practical, technical talk, motivational speaking, technical visits, national and international experts' lectures and all other possible student centric activities have been virtualized in this time.

There are many advantages such as learning at comfort of home; students become more tech-savvy; relevant information at one platform; improved attendance; traceable learning; high engagement; reduced distractions and quick assessment etc. The resources needed are just proper internet connectivity, an invite or an account in one of the online platforms and a digital device such as a phone or laptop. However, there are some disadvantages too as, at one time a number of people get into the meeting then there may be a few connection problems in one of their houses but it affects the whole meeting. When something has to be done together by everyone in the meeting, then the sounds are really hard to distinguish and everyone's voice is not clearly heard. In this lock down time, they are truly vital in they are easy and beneficial forms of virtual communication.
Parekh (3rd Sem, Chemical Engg.) secured 1st runner up position in online examination phase - I & II. The student of GEC Valsad has developed a website since 1.

7. Patel Rishi Hitendrakumar of Env. Engg. completed the online certificate course in Environmental Engg. Completed the online certificate course on Standard precautions: Environmental cleaning & disinfection offered by the world Health Organization. He also took the online quiz competition based on cleaning & disinfection offered by the world Health Organization.

8. Patil Neel Pankajbhai (160190105074) secured 1st position in an event held by RNGPIT under AIChE student chapter of chemical engineering.

9. Vaibhav Lawange (Sem 3, Env) took up online Covid 19 Quiz Management and Sciences.

10. The team of Bassan Jasmeentaur, Shimitpu Gossi and Smit Parekh (3rd Sem, Civil Engg.) secured 1st runner up position in an event held by RNSGIT under ACrE student chapter of 2D and 3D model representation.

Students’ Achievements

Poetic Expressions

Shweta Chopda (160190113008)

बस एक अपना है जो लड़िकयों ने चलाया है, तो इस समय ऐसा भी आयेगा

घर मे रहे माँ बाप

बन कर आयेगा हमें बढाना है

अपने ले नैफ़ से सदेशी जीवन का करार मजबूत ईरादा

कौन सही कौन गलत का अब कर सँग उन िकसानों का जीवन पढ़ा रही आप िजसकों से आप िसखा रहे िलखना

ये अंधिवा उ का काला पटा कई लोगों िक आंखों पर आज भी बंधा है

एक समय ऐसा भी आयेगा, जब तुमु खुद सफेद नहीं

पाई

अंदर िजंदगी आपको करने जा सकता है

कर भरोसा खुद पर उखाने वालों को देखा है, आम्बियस न्यारों में मरे का गोद बनाया है.

Ankit Labhodur Yadav (170190109060)

हर मौके पर आगे बढ़ाया है आपने हमारी

जीने आपके संग

टॉट्स उके हो या कचरल इवेंट

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Ankit Labhodur Yadav (170190109060)