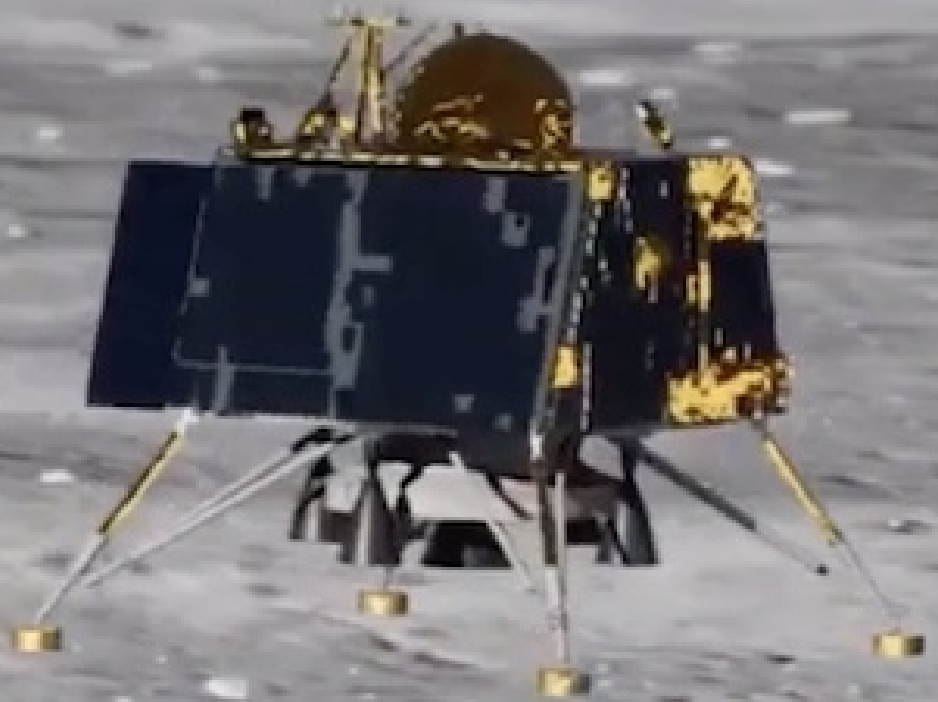


Profusion' 20



"To grow as a premier education and research institute in the field of Engineering with global view point and serving with world class standards conferring excellence to the engineering products through dedicated and competent Engineers."



GIDC Degree Engineering College

(Managed by GIDC Education Society, Gandhinagar)

Block No. 997, Abrama, Tal. Jalalpore, Dist. Navsari - 396 406, Gujarat, India.
Ph : 02637 229040, Email : gidecengcol@gmail.com, Web : www.gdec.in

Chairman's Message(GIDC)



બલવંતસિંહ સી. રાજપૂત
ચેરમેન



ગુજરાત ઔદ્યોગિક
વિકાસ નિગમ
(ગુજરાત સરકાર સ્થાપિત ઉપક્રમ)

સંદેશ



ગુજરાત ઔદ્યોગિક વિકાસ નિગમદ્વારા એના મુળ ઉદ્દેશ્યથી પણ આગળ વધીને સામાજિક અને શૈક્ષણિક જવાબદારીના ભાગરૂપે વર્ષ ૨૦૧૨માં ગુજરાત સરકારના સહભાગી તરીકે ગુણવત્તાસભર તકનીકી શિક્ષણ અને સમાજને ઉત્તમ કૌશલ્યવાળા કાર્યક્ષમ ઇજનેરો પ્રદાન કરવા માટે જાહેર-ખાનગી ભાગીદારીના ભાગરૂપે જી.આઈ.ડી.સી. એજ્યુકેશન સોસાયટી હેઠળ અને તેના દ્વારા સંચાલિત જી.આઈ.ડી.સી ડિગ્રી એન્જિનિયરિંગ કોલેજ શરૂ કરવામાં આવી. આ કોલેજને ૦૮ વર્ષ જેટલો સમયગાળો પૂર્ણ થયો છે આ દરમિયાન કોલેજમાંથી ચાર વર્ષમાં જુદીજુદી શાખાઓમાંથી ઇજનેરીના અભ્યાસમાં ઉત્તીર્ણ થઈ સ્નાતકો સમાજના દરેક ક્ષેત્રે પોતાનું ઉત્તમ યોગદાન આપી રહ્યા છે તેવી મારી શ્રદ્ધા છે. આવનાર સમયમાં પણ બદલાતી અપેક્ષાઓ અને જરૂરીયાતો અનુસાર મૂલ્યવાન તથા શ્રેષ્ઠ ઇજનેરનું સર્જન અને ઘડતર કરી રાષ્ટ્રને સમર્પિત કરે એવા વિશ્વાસ સહ શુભેચ્છા છે.

આધુનિક સમયમાં અત્યંત ઝડપથી અને ઉત્તરોત્તર પ્રગતિશીલ તકનીકસાથે કદમ મિલાવી, આંતરરાષ્ટ્રીય પરિસ્થિતિનો અભ્યાસ કરી, દેશની માંગ અને જનસામાન્યની સુવિધાઓ વધે તે અર્થે ઉત્તમ આયોજન કરવું એતકનીકી શિક્ષણ માટે પડકાર છે. આર્ટીફિશીયલ ઇન્ટેલીજન્સ, મશીન લર્નિંગ, રોબોટીક્સ, બીગડેટા એનાલીસીસ અને તેના જેવી અતિઆધુનિક તકનીકોના ઉપયોગ તથા માનવ સંસાધનના ચોક્કસ દીશા તરફના પ્રયાસોથી આપણા દેશને વિકસીત દેશની હરોળમાં મૂકવા આપણે સૌએ કટિબદ્ધ બનવું પડશે. દેશની સમસ્યાઓ અને સંસાધનોની મર્યાદાઓને ધ્યાને રાખી ઇજનેરોનું ભાવિ એ તેના પ્રયત્નોને ફળરૂપે ઘડાશે.

આપણા માન.વડાપ્રધાનશ્રી દ્વારા મેક-ઇન-ઇન્ડિયા, સ્કીલ-ઇન્ડિયા, સ્ટાર્ટઅપ ઇન્ડિયા જેવી યોજનાઓ મારફતે સર્વાંગી વિકાસની નેમ વ્યક્ત કરી છે. વિશ્વના અગ્રેસર દેશોએ ઇજનેરી ક્ષેત્રે સંશોધનો અને અમલીકરણ કરીને માનવ જીવનશૈલી અને સુવિધાઓ માટે ઘણા પ્રયત્નો કર્યા છે તે અનુસાર આપ સૌ સહભાગી બની આપણાદેશનું નામ ઉજ્જવળ કરવા પ્રયત્ન કરશો તો એ સમય દૂર નથી કે જ્યારે ભારત એ વિશ્વના દેશો માટે ફરી માર્ગદર્શકની ભૂમિકા ભજવશે અને વિશ્વકલ્યાણના માધ્યમથી “વિશ્વગુરુ” તરીકે પોતાનું સ્થાન હાંસલ કરશે.

આગામી સમયમાં આપ સૌ દૃઢ ઈચ્છા, ઉત્તમ કૌશલ્ય અને તકનીકના સર્વોત્તમ માધ્યમ મારફતે પોતાની કારકીર્દી અને જીવનમાં આગળ વધો અને શક્ય તેટલું યોગદાન રાષ્ટ્રનિર્માણમાં અર્પિત કરો તેવી અંતરથી શુભકામનાઓ સહ આગામી સમય માટે સર્વેને સફળતાની શુભેચ્છાઓ.

આપનો સ્નેહાધિન,

બલવંતસિંહ રાજપૂત
અધ્યક્ષ - ગુ.ઔ.વિ.નિ.



બીજો માળ, બ્લોક નં. ૪, ઉદ્યોગ ભવન, સેક્ટર-૧૧, ગાંધીનગર-૩૮૨ ૦૧૧, ગુજરાત, ભારત

ફોન : +૯૧-૦૭૯-૨૩૨ ૫૦૫૮૧ એ.નં.૨૦૧ | મોબાઈલ : ૯૮૨૫૦ ૦૯૭૫૫

E-mail : chairman@gidcgujarat.org | Website : www.gidc.gov.in

Chairman's Message(GES)



Cultivation of creativity and stimulating innovation are two of the key constituents of an effective education, and a college magazine is the perfect mirror to represent these both. It binds the creative energies of the academic community, and distills the essence of their enthused vision in the most vivid way possible.

GIDC Degree Engineering College is the commitment of GIDC Education Society, Gandhinagar and Government of Gujarat in the form of PPP model Institute for providing excellence in technical education to the society and especially in South Gujarat Region. It gives immense pleasure to pen few prolouging words in GIDC Degree Engineering College (GDEC) magazine 'PROFUSION-20'. Empowerment of students for their overall development through education is valued vision of GIDC Education

Society and GDEC. In Prevailing era, education means much more than merely acquiring knowledge. It is accomplishment of knowledge and skills, building character and improving employability of our young talent, the future leadership.

The present-day developments are based on multifaceted incorporation of varied aspects of different areas with technological development largely contributing in nations overall development. At the same time, a growing nation has many challenges and difficulties in providing effective and quality technical education particularly for the rural students.

Taking into consideration the main difficulties in the path of providing technical education, GIDC Degree Engineering College has been established with the aim to provide quality education to the students at their own location. With its progress at the forefront of advancement, the college is going to complete almost its eight-year journey of technical education in the essential engineering fields. Since the commencement, GIDC Degree Engineering College has insisted overall development of students with consideration of capacity building. Along with the consistent technical education, GDEC College makes equal efforts for qualities and character building of the students in terms of innovation and ethical professionalism and time management.

GIDC Education Society has always supported the institute in accomplishing aims and objectives of establishment of institute in the region. I wish that institute will achieve the dignified status of eminent technical education catchment for the industries to absorb most competent technocrats

I wish my best compliments to all stack holders of institute for providing their best inputs to bring the institute at height of achievements.

Shri M. Thennarasan, IAS

Chairman, GIDC Education Society, Gandhinagar,

Vice Chairman & Managing Director, GIDC - Gandhinagar

Joint Managing Director's Message



I Would like to congratulate GIDC Education Society and GIDC Degree Engineering College for their notable contribution towards the noble aim of Hon. Government to provide technical education to farthest and remote area of state.

As per my view, molding technical education to professional technocrat is an art and I would like to congratulate to various stakeholders of GIDC Education Society and GIDC Degree Engineering college for their successful efforts in this transformation.

I would like to appeal all students to commit yourself for becoming best technocrats of nation and provide your best output after shaping out from this institute. Its also my message to all students and parents to co-operate in accomplishment of dream of Hon. Government of making our state, our country as technical hub for the world.

GIDC Degree Engineering College is committed to provide best technical education to meritious students and for the development of all necessary associated skill in this regard.

On behalf of GIDC Education Society and GIDC Degree Engineering College, I would like to invite you to join our learning community, to shape out your career optimally.

Shri K. L. Bachani, IAS

Joint Managing Director, GIDC, Gandhinagar

Member Secretary's Message



It gives me immense pleasure being part of GIDC Education Society and its remarkable venture GIDC Degree Engineering College. Let me take the opportunity to communicate through the annual magazine "Profusion' 20".

"Profusion' 20" is a mirror of round the year activities of college and it's wonderful to observe that college is flourishing year after year and making its mark in the field of technical education; serving the vision and mission of GIDC Education Society.

I would like to invite the students of science passing out this year to take the benefit of best resources of GIDC Degree Engineering College including well qualified staff, superior infrastructure and high end equipments made available with quality education at GIDC Degree Engineering College; which serves as a perfect atmosphere for a skilful and professionally efficient engineer to be born.

Parents of students should also take important note that a class apart facility is being provided at their doorstep by the means of this Public-Private-Partnership (PPP) model college ideal for

engineering studies.

At the same time, I will urge all the current students and faculty members to make the best possible utilization of uncompromised facility provided, to take their technical and professional skill at next level for their professional and institutional growth.

My supreme wishes to all and individual associated with GIDC Education Society and its extraordinary venture GIDC Degree Engineering College.

Shri B. C. Warli

Member Secretary, GIDC Education Society, Gandhinagar

I/c. Director (Notified Area),

I/c. Chief Engineer & Superintending Engineer (Public Health),

I/c. Superintending Engineer (Project), GIDC, Gandhinagar

Member's Message



Greetings

I extend you a warm welcome to the Annual Magazine of GDEC, an Institute dedicated to quality education, established with a motive of contributing to the progress of the society.

GDEC being the first Public Private Partnership institute in South Gujarat, caters to more than 1000 students, offering 5 UG programs in engineering faculty of diverse fields. Programs are affiliated to Gujarat Technological University and approved by AICTE, New Delhi.

At GDEC we have set high standard for ourselves in all our endeavors, and we aim at achieving excellence by creating all-rounded professionals with a regard for social concern. Towards this direction, efforts are being put continuously to adopt best practices in teaching-learning process, keeping student at the heart and focusing on learning outcomes. To align with our teaching-learning process, we have state-of-the-art laboratories equipped with modern tools and techniques over and above the University requirement. Human resource is the most important part of any organization and front-end of education system. All our processes are complemented

by highly dedicated, well qualified, profusely knowledgeable and experienced team of faculty members who nurture the students in all dimensions and all fields. Such an experiential learning prepares individuals for future requirements in career paths and makes them industry ready. While attaining academic excellence is very important, we also recognize the importance of personality development that happens outside the classroom.

Institute's vision for the upcoming years is to enhance research activities and strengthen Industry-Institute interaction, creating a vibrant learning environment, so that we become preferred choice for engineering education seekers across the nation.

I feel privileged to invite students seeking quality engineering education, academicians, recruiters and industry professionals to experience the vibrancy with the budding technocrats of future, at GDEC.

Wish you a happy learning.

Shri. N. P. Vadaliya

Trustee Member, GIDC Education Society, Gandhinagar

I/c S.E., G.I.D.C., Surat

Member's Message



Dear All,

It gives me immense pleasure to welcome you to the innovative world of GIDC Degree Engineering College through its annual magazine "Profusion 20" which has an eco-friendly campus and is equipped with state-of-art infrastructure. GDEC has equipped labs, workshops and libraries to help students in attaining highest standards in academics, research and professional skills. The campus has adequate infrastructure to take care of sports and recreational activities.

The main focus of the Institution is to empower students with sound knowledge, wisdom, experience and training both at the academic level of Engineering and in the highly competitive global industrial market. The infrastructure facilities and state-of-the-art equipment's combined with a galaxy of competent, talented and dedicated faculty members contribute to an enjoyable and an easy learning experience.

We wish the best for all our students, and the members of the institution who restate their aims at providing the best in academic and extra-curricular fields. Soft skills and educational skills is what the institution seeks to provide every student at the campus itself. You are assured that you will be proud of yourself as a confident and successful technocrat after four years at GDEC.

Once again, we wish all our students and faculty members successful and rewarding career.

I would like to wish the best luck to team GDEC for the Cultural Fest Gunj 20.

Dr. V. S. Purani

*Trustee Member, GIDC Education Society, Gandhinagar
Principal, Government Engineering College, Valsad*

Member's Message



It gives me great pleasure to know that 'Profusion-20, GIDC Degree Engineering College magazine is ready for publication. By Justifying to its name, this magazine gives a vision into the range and scope of the imagination along with creativity of our students and faculty members. I would like to congratulate the individual stakeholder for their contribution towards their duties

Education is a comprehensive process that leads to the achievement of the full potential of the students. Our endeavour is to prepare our students with life-skills to face the real world be it planning, organizing, deciding, questioning, reasoning analysing, team-building, communicating effectually and to deal with challenges self-assuredly.

Let's take this wonderful venture of Gujarat Industrial Development Corporation managed by GIDC Education Society to the new heights of achievement by awaking the true spirit of ENGINEERING and by delivering skilfully crafted ENGINEERS to the world around us.

Wishing a bright future and success in all future endeavours to all students and staff.

Dr. A. K. Dave

*Trustee Member, GIDC Education Society, Gandhinagar
Ex. Director, SVNIT, Surat*

Member's Message



Dear stakeholders of GIDC Degree Engineering College, feels immense pleasure to me in conveying a message for our upcoming institute magazine "Profusion 2020".

GIDC Degree Engineering College- GDEC teaches its students to ingrain innovativeness as a way of thinking that governs every aspects of life thereby to foster growth of technology. To explore the proficiency and dexterity of technical students, and to present them an extensive platform, every year the institute organizes a Tech fest- "UDAAN", Sports event- "MAITRIOLAMPIADS" and an Annual Function- "GUNJ". These are the events that give an opportunity to students to show their talent.

I strongly believe these types of events enhance the confidence of our young generation, which would be very beneficial for improving the quality of life and well-being of people living in rural areas, as well as to contribute towards the nation goal.

I am very much glad to acknowledge that we have also established a "Design Lab" sponsored by Gujarat Council on Science and Technology (GUJCOST), Gandhinagar in our institute campus. This

laboratory inspires and ignites young innovators.

I heartily appreciate the sincere efforts of our principal, faculties and students for organizing such grand events. I also congratulate participants of our college for their constant effort.

CA Vinodchandra G. Desai

Trustee Member, GIDC Education Society, Gandhinagar

Member's Message



The main aim of every educational institution should be "to convert the mind into a living fountain and along with creating a deep reservoir of knowledge, dedication, humane qualities, strength and power....."

At GIDC College of Engineering, we take immense pride in the fact that our students receive the best quality education thereby developing life skills. This happens because we follow very high standards of teaching and learning. Our excellence is not just confined to the classroom; we are also notably active in conducting conferences, workshops, seminars, guest lectures and other co-curricular activities. These activities expose students to aspects beyond the curriculum, thus adding high value to their professional success.

The magnificent infrastructure of GIDC Engineering College provides ambience for excellent teaching-learning environment combined with the use of the state-of-the art technology. These technologies have been tremendously successful in facilitating a highly effective learning environment.

I wish the best to all the students for their excellent pursuit in the field of their choice and to the faculty members for their constant up gradation to provide their best in moulding the future generations.

Dr. Dinkarraai G. Naik

*Trustee Member, GIDC Education Society, Gandhinagar
Director, Naran Lala College Campus, Navsari*

Member's Message



Intelligence with Character is the true goal of Education. Knowledge gives humility, from humility, one attains Character. The Highest Education is that which makes our life in harmony with all existence.

In the context, GIDC Degree Engineering College as an Institute has been quite distinct from day one. It strives to make Gujarat – the Land of Gandhiji the Global Education Hub through knowledge creation, augmentation and dissemination. For the purpose, GIDC Degree Engineering College dedicates its efforts towards developing synergy between industry and academia; and community upliftment through education. Importantly, GIDC Degree Engineering College continually strives to focus on future with an entrepreneurial spirit.

On-Campus and Outreach Activities are organised for Students, Teachers and Management. GTU Innovation Club hones competencies of Faculty and Staff on Campus.

Uniquely, through these initiatives and practices, GDEC focuses on converting eyes into sight and vision; information into knowledge and wisdom; and demography into citizens and harmonious

living. Further, programs at GDEC enable the students not only to gain an understanding but also to develop insights in altered research areas. Teachers also dedicate their efforts to construct and facilitate opportunities where the students can practice and experience creativity. Moving a step ahead towards the purpose of education, GDEC also aims to make its students Job Creators and not only Job Seekers. Honesty, Integrity, and Transparency have been the benchmarks of GDEC in both - word and action.

In the journey, GDEC fosters a niche for world class education at the rural base. I, earnestly, request you all to join hands with GDEC and work towards the realisation of this aspiration. Many have already volunteered in this Seva Yajya through their magnanimity; knowledge, skills and resource sharing; and through their association with GDEC either as a Faculty, Staff or Student. On behalf of GDEC Family, I extend a word of gratitude to all and also invite all to visit the Campus, witness the development and be a part of the Journey.

Shri Mahadevbhai Desai

*Trustee Member, GIDC Education Society, Gandhinagar
CMD, Sthapati Designers & Consultants Pvt. Ltd., Navsari*

Principal's Message



I am privileged here to write down the message for our institute annual magazine “Profusion -20”. Its matter of proud to announce that institute is about to complete eight year from its commencement, and institute has maintain its pace of growth in technical education successfully. Institute has achieved its achievement progressively. Here I would like to share that annual magazine reflects the overall performance of institute measured during the year and especially the efforts of institute students, staff members and great assistance provided by management

During last couple of years technical education has been affected with ups and downs and still it's there, but friends I would like to assure you that this stumbling block of technical education is just like hump on road its not gape between two ends of bridge, because for prevailing world its too much difficult to sustain without developing and adopting technology and its updation. So all stack holders of technical education and technology are required to carry out brain storming with industries, technical societies to prepare the platform of employability and development.

I would like to welcome parents and students who are presently at school education to visit our excellence at institute where we can propagate effective career guidance and its plan as per study

of student's aptitude.

GIDC Degree Engineering College is well equipped with qualified staff and excellent infrastructure where student can get fresh and sustainable environment to study. Institute maintains research based environment with curricular study as well as gives opportunity to students for their overall development .Initiation of students to start-ups , industrial hackathon , technical exhibitions has enhanced the quality of academics in institute.

I would like to add here that student of engineering is essentially required to think with broad and multi-disciplinary aspects by looking to future demand. The days are not far that engineers would be called to solve techno social , techno economical problems along with conventional technical matters .Here i will appreciate study of technical education which is able to develop student with multi facet only required thing is to take interest by students intrinsically .

Last but not least, I would like to appreciate the persistent support of GIDC Education Society(GES), Gandhinagar where GIDC Education Society is fulfilling its noble commitment to educational fraternity of running technical institution with Government of Gujarat under Public Private Partnership mode through the medium of GIDC Degree Engineering College – Abrama , Navsari. Wishing all students good luck for their future and best wishes to students who will be passed out from campus this year.

Dr. Neeraj D. Sharma

Principal

GIDC Degree Engineering College, Abrama

Executive Editor's Message



Dear readers;

It gives us great pleasure to bring to you a seventh issue of our institute annual magazine "Profusion". The Profusion-20 is dedicating to a team of Chandrayaan-2 mission, which is a highly complex mission, which represents a significant technological leap compared to the previous missions of ISRO, which brought together an Orbiter, Lander and Rover with the goal of exploring South Pole of the Moon.

A magazine is like a mirror which reflects the clear picture of all sorts of curricular and co-curricular activities undertaken by the institution. We are confident that this issue of Profusion-20 will send a positive motion to the faculties, students, staffs and the persons who are interested in the educational and literary activities.



Messages of the personalities like Chairman of GIDC, Chairman, secretary and members of GIDC education society and from the Principal's Desk boost the morale of students, faculties and staffs.

We would like to place on record our gratitude and heartfelt thanks to all those who have contributed to make this effort a success.

On behalf of editorial board, we would express our gratitude to the board of management of GIDC education society for giving support and encouragement. We truly confident that the sheets that follow will make an informative and encouraging to the readers.

Prof. (Dr.) H. S. Patil
Prof. (Dr.) S. S. Patel

Editor in Chief :	Dr. N. D. Sharma (Principal)
Executive Editors :	Dr. H. S. Patil (Head, Mechanical Department) Dr. S. S. Patel (Head, ASH Department)
Associate Editors :	Dr. D. C. Patel (Associate Professor, Mechanical Department) Prof. A. M. Nayak (Head, Computer Department)
Chief Co-ordinators : (Advertising & Sponsorship)	Prof. V. K. Tilva (Asst. Professor, Civil Department) Prof. H. G. Vashi (Asst. Professor, ASH Department)
Co-Editors/Co-ordinators Advertising & Sponsorship:	Prof. A. O. Jain (Asst. Professor, Automobile Engineering Department) Prof. D. A. Patel (Asst. Professor, Mechanical Engineering Department) Prof. R. J. Lad (Asst. Professor, Civil Engineering Department) Prof. D. R. Gayakwad (Asst. Professor, Electrical Engineering Department) Prof. B. H. Patel (Asst. Professor, Computer Engineering Department) Mr. A. N. Patel (Lab Assistant, Applied Sciences & Humanities Department) Mr. S. T. Patel (Accounts Officer, Administrative Department) Mr. R. R. Naik (Office Superintendent, Administrative Department) Mr. D. N. Shukla (Administrative Clerk, Administrative Department)
In-house Design Expert:	Prof. K. D. Patel (Asst. Professor, Computer Engineering Department) Mr. Nilesh Patel (Lab Assistant, Computer Engineering Department)
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About the Institute

GIDC Degree Engineering College (GDEC) is a venture of Gujarat Industrial Development Corporation established in 2012 under the Public Private Partnership, a scheme of Government of Gujarat. GIDC constituted the Society, namely “GIDC Education Society” which has been registered as Society under the Society Registration No. GUJ: 1769: Gandhinagar dated 14-07-2010 and also registered as Charitable Trust under the Bombay Public Trust Act, 1950 vide Registration No. F:1723: Gandhinagar dated 14-07-2010. The institute is approved by All India Council of Technical Education (AICTE), New Delhi and affiliated to the Gujarat Technological University, Ahmedabad. The GDEC assignment is to develop a quality education system, centre of excellence with synergy to explore innate abilities of students. Institute encourage teaching & learning through innovative practices for value based education. Institute have qualified, experienced faculty & staff to take up the responsibility of knowledge transfer, have an excellent infrastructure in environment friendly atmosphere, fully equipped laboratories with latest technology that helps the industry. The students learn engineering to take up fresh challenges of the industry & research. Involvement of industry professionals in the development of students is another area where our college is focusing with considerable success.



Courses Offered

The GIDC Degree Engineering College, Abrama, Navsari, offers following five undergraduate courses of 4 years duration (8 semester) leading B.E. Degree:

Branch	Intake
Mechanical Engineering	120
Civil Engineering	90
Computer Engineering	60
Electrical Engineering	60
Automobile Engineering	30

VISION & MISSION



VISION:

To grow as a premier education and research institute in the field of Engineering with global view point and serving with world class standards conferring excellence to the engineering products through dedicated and competent Engineers.

To grow Engineering institution of excellence with the environment of commitments and continuous learning approach.



MISSION:

To endow with teaching education at the Degree as well as Postgraduate levels to enrich the people of the country in present technical scenario.

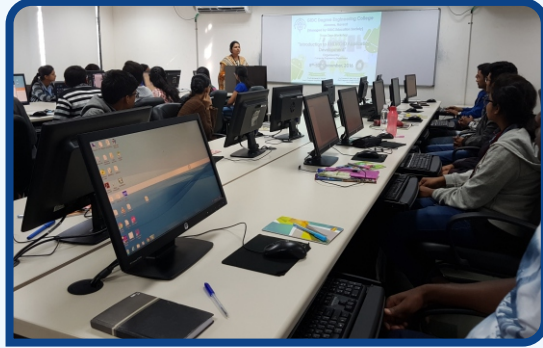
- To establish all latest facilities to produce trained engineers to fulfil the requirement of the industries and society
- To provide an ideal platform for teachers, students and professionals. To promote horizontal and vertical networking.
- To improve quality of technical education with socio-economic and environmental needs of the industries and the society at large.

Board of Management

Name of the Member	Designation in the GES	Current Position/Organization
Shri M. Thennarasan IAS	Chairman	Hon. Vice Chairman & Managing Director , GIDC, Gandhinagar
Shri B. C. Warli B.E Civil	Member Secretary	I/c.Director (Notified Area), I/c.Chief Engineer & Superintending Engineer (Public Health) & I/c.Superintending Engineer (Project) GIDC, Gandhinagar
Shri N. P. Vadalía B.E Civil	Member	I/c.Superintending Engineer-Surat ,Executive Engineer-Surat
Dr. V. S. Purani M.E. Civil, Ph D. in Structural Engg.	Member	Principal GEC, Valsad
Dr. A. K. Dave B.E(Mech),M.E.(Mech), Ph.D	Member	Ex. Director, SVNIT, Surat
Shri Vinodchandra G. Desai M.Com, F.C.A	Member	Chartered Accountant, Navsari
Dr. D. G. Naik M.A, M.Ed, Ph. D.	Member	Director, Naran Lala College Campus, Navsari
Shri Mahadevbhai Desai B.E Civil, LLB, MIE, MASCE(USA)	Member	CMD, Sthapati Designers, Navsari

Amenities of the Institute

The Institute is having well-furnished classroom and seminar halls with smart board with projector in each department buildings accompanied with fresh air and modern teaching techniques and tools to facilitate teaching and learning process in a conducive manner- an excellent support for discussions, presentations and analysis of theoretical talent of technocrats.



The canteen is managed by a professional caterers, is spacious and provides breakfast and lunch (mess) services. The canteen has a very good ambience and special emphasis on taste and hygiene. In case of power failure, we have the direct power backup solution in the form of a Generator Set of Kirloskar company with load capacity of 100KVA rated current 139 Amps and supply type three phase, sufficient enough to supply in the whole institute.



Rankers of the Institute for Academic Year 2018-19

Mechanical Engineering

B.E.-I



SURATWALA KUSHANG
CPI-7.62



JAIN CHINMAY
CPI-7.59



AHIR BHARGAV
CPI-5.82

B.E.-II



HALPATI PIYUSH
CPI-7.83



PATEL PRIYANK
CPI-7.72



PATEL KEVAL
CPI-7.65

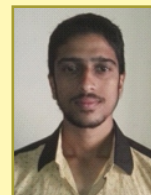
B.E.-III (A)



MISTRY NISARG
CPI-8.37



PATEL RONAK
CPI-8.36



PATEL JIGNESH
CPI-8.06

B.E.-III (B)



TANDEL PRAGANG
CPI-8.94



TANDEL YASH
CPI-8.54



TANDEL AADARSH
CPI-8.07

B.E.-IV (A)



GANDHI LAY
CPI-8.49



GANDHI SMIT
CPI-8.35



PATEL DENISH
CPI- 8.07

B.E.-IV (B)



SHIMPI KUNAL
CPI-8.87



NATWIJUKA GILBERT
CPI-8.34



PARMAR MILAN
CPI-8.16



Rankers of the Institute for Academic Year 2018-19

Computer Engineering

B.E.-I



NAIK YASHVI
CPI-8.69



MANDAVIYA YASH
CPI-8.00



NAIK PREM
CPI-7.59

B.E.-II



PALLA MAHMADSAMEER
CPI-9.23



MISTRY MEGHA
CPI-9.18



PURABIYA KUNDAN
CPI-9.13

B.E.-III



KATIRA KARAN
CPI-8.45



PATEL MAYURI
CPI-8.39



PATEL KHEVNA
CPI-8.36

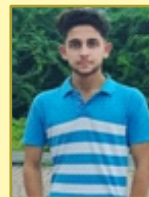
B.E.-IV



MAKWANA AKSHAY
CPI-9.15



PARMAR BHAVIN
CPI-9.01



MALI YASHWANT
CPI-8.76

Automobile Engineering

B.E.-I



SONDARVA JAYNESH
CPI-5.15

B.E.-II



KAMBLE VISHAL
CPI-7.20



SHAH JINANG
CPI-7.07



SHAH AAGAM
CPI-6.56



Rankers of the Institute for Academic Year 2018-19

B.E.-III



SHAIKH MOHD. SAAD
CPI-7.48



KALWAR RAJ
CPI-7.43



TAILOR PARTH
CPI-6.73

B.E.-IV



MISHRA SAURABH
CPI-7.82



GOLAKIYA VIRESH
CPI-7.74



PRAJAPATI KEVIN
CPI-7.72

Electrical Engineering

B.E.-II



CHAUHAN GITADEVI
CPI-7.80



PATEL CHIRAG
CPI-7.48



PATEL NIHAR
CPI-7.21

B.E.-III



RANA RINKAL
CPI-8.51



TANDEL DINKY
CPI-8.04



MISTRY SHUBHAM
CPI-7.94

B.E.-IV



PATEL HETVI
CPI-8.82



PATEL KEYUR
CPI-8.42



GANDHI ALAP
CPI-7.98



Rankers of the Institute for Academic Year 2018-19

Civil Engineering

B.E.-I



BILIMORIA DINAZ
CPI-8.9



NAIK PAL
CPI-7.05



YADAV PRAMOD
CPI-6.49

B.E.-II



MISTRY TUSHAR
CPI-8.75



PATEL RAJ
CPI-8.55



PRAJAPATI DEEPAK
CPI-8.37

B.E.-III



PATEL JAHNVI
CPI-8.89



KAHAR JINAL
CPI-8.84



MODI BHAKTI
CPI-8.44

B.E.-IV



PAYALBEN TANDEL
CPI-8.72



PATEL VIDHYA
CPI-8.35



JAY BHANUSHALI
CPI-8.3





From Desk of Head of Mechanical Department

It gives me a great pleasure to welcome you to the Mechanical Department at GDEC. This discipline has been thought of traditionally as a professional discipline, applying principles from engineering, physics in design, analysis, manufacturing of mechanical systems, and the associate transfer and flow of energies from one form to another. Now, it is at the centre of almost all technical advancements, from health services to communications, transportation, and all the infrastructures that you see around. The Mechanical Engineers of today are multi disciplinary, with knowledge from other branches of engineering. The department has an energetic team of highly qualified, dedicated and experienced faculty in order to contribute to the technical education as a whole and helps to mould young engineers by igniting in their minds in the flame of inquisitiveness. The department has evolved a comprehensive student-centric learning approach, designed to add significant value to the learner's understanding in an integrated manner through lab sessions, assignments, training, seminars, projects and independent study.

We impart quality engineering education through sound theoretical knowledge, hands-on laboratory as well as computational skills and exposure to technological advances in the outside world. In order to meet the challenges of modern engineering education, our faculty regularly participate and publish their research papers in conferences/seminars and also attend workshops. The department has well-equipped laboratories catering to all fields of Mechanical Engineering i.e. Basic Engineering, Machines & Mechanisms, Fluid & Hydraulic, Measurement & Metrology, Material & Metallurgy, Energy, Machine Dynamics & Vibration, Heat Transfer, CAD/CAM, Refrigeration- Air Conditioning and Central Mechanical Workshop comprising shops like - Fitting, Carpentry, Foundry & Smithy, Welding and Machine Shop etc. The department also conducted various activities for students like experts talk from Industries/ Academics on various specialized subjects, Industrial Visit, conduction of seminars/workshops, paper/poster/project presentations. The department has also conducted a training courses on CNC Programmer and Operator under PMKVY to train the unemployed youth in Engineering skills. The students are also encouraged for participation in various technical competitions and industrial exhibitions. The goal of the department is to produce global engineers par excellence.

- Prof(Dr.) H. S. Patil

Teaching & Supporting Staff Members

Sr. No.	Staff Name	Designation	Qualification
1	Dr. Hiralal S. Patil	Professor and Head of Department	M.E. , Ph.D. (Mechanical)
2	Dr. Dilip C. Patel	Head of Workshop and Associate Professor	M.Tech. , Ph.D. (Mechanical)
4	Prof. Daksh R. Tandel	Assistant Professor	M.E.(Cryogenics)
5	Prof. Hariketan B. Patel	Assistant Professor	M.E.(CAD/CAM)
6	Prof. Bharat H. Gajera	Assistant Professor	M.E. (Machine Design)
7	Prof. Hitesh C. Rana	Assistant Professor	M.E. (Machine Design)
8	Prof. Bruhad S. Naik	Assistant Professor	M.Tech. (Thermal Engineering)
9	Prof. Dharmik A. Patel	Assistant Professor	M. E. (Thermal Engineering)
10	Prof. Harsh R. Naik	Assistant Professor	M. Tech.(CIM)
11	Prof. Akash A. Patel	Assistant Professor	M. E. (Machine Design)
12	Prof. Krunal A. Hathiwal	Assistant Professor	M. E. (Thermal Engineering)
13	Prof. Dhaval S. Chaudhari	Assistant Professor	M.Tech.(IPED)
14	Mr. Hitesh N. Patel	Lab Assistant	B.E.(Electrical Engg.), Diploma(Mechanical Engg.)
15	Mr. Brijesh B. Patel	Lab Assistant	Diploma(Mechanical Engineering)
16	Mr. Divyesh C. Patel	Workshop Technician	I.T.I (Fitter)
17	Mr. Bhavin M. Patel	Lab Attendant	Agriculture Diploma





From Desk of Head of Computer Department

Currently, we are in the robustly evolving phase of digitization. In this phase, the responsibility increases multifold being an IT- Technocrat and same is the sentiment of whole Computer Engineering Department at GIDC Degree Engineering College. The Department has a comprehensive curriculum on topics related to all aspects of Computer Engineering with an emphasis on practical learning to deal with the phase efficiently.

The Department has state-of-the-art infrastructure and computing equipment supported by high-speed Ethernet and wireless networks. Students are provided with individual work-spaces and desktop computers consisting of high-end configuration.

The faculty members of the department are well experienced and excellent in a teaching field. Apart from the curriculum, the department has actively organized expert lectures for students on various technical as well as non-technical topics which are delivered by professionals from the industry/academia. In the current academic year, the department has successfully organized two Short term training program based on Android application sponsored by GTU and Internet of Things sponsored by GUJCOST. In this program students and faculties from various diploma and degree engineering college was actively participated.

The department has been working towards placements of its students very diligently. In the current academic year few Companies like TCS-ion, BosLeo, GoldenMace IT Solutions Pvt. Ltd., VMukti Solution, SSM INFOTECH Solutions Pvt.Ltd., Softyug, Mango Technology, Peacock Technologies etc. have visited the department for Campus Selection and many elite students of the department have been placed last year. In the current academic year few more companies will be visiting for placement.

With the tie-ups with the well renowned companies like NSEIT Ltd., TCS Ltd., Aptech Ltd., Ace Integrated Sol. Ltd., etc. computer department has generated a good sum of revenue this year too by hosting multiple online examinations at GDEC.

With the most proficient and enthusiastic staff members, Computer Engineering Department will continue to deliver quality education along with constructive co-curricular activities for the betterment of students and allied technocrats.

- Prof. Archana Nayak

Teaching & Supporting Staff Members

Sr. No.	Staff Name	Designation	Qualification
1	Archana M. Nayak	Assistant Professor (Head of Dept.)	P. hd. (Pursuing) ME(Computer Engg.)
2	Kaushik S. Patel	Assistant Professor	M.Tech (Computer Engg.)
3	Kaushal T. Kevadia	Assistant Professor	P. hd. (Pursuing), ME(Computer Engg.)
4	Hetal M. Patel	Assistant Professor	ME (Computer Sci. & Engg.)
5	Brijesh U. Patel	Assistant Professor	M.E (Computer Engg.)
6	Bhumika H. Patel	Assistant Professor	M.Tech (Computer Engg.)
7	Pankti S. Naik	Assistant Professor	M.E (Information Tech.)
8	Mihir A. Mishra	Assistant Professor	M.Tech (Computer Sci. & Engg.)
9	Vibhuti P. Patel	Assistant Professor	M.Tech (Computer Engg.)
10	Kushal D. Patel	Assistant Professor	M.Tech (Computer Engg.)
11	Tejas B. Patel	Assistant Professor	ME (Computer Engg.)
12	Himanshu R. Patel	Lab Assistant	BE (Computer Engg.)
13	Nilesh G. Patel	Lab Assistant	Diploma (Computer)
14	Amruta S. Naik	Lab Assistant	Diploma (Computer)
15	Harish L. Patel	Lab Attendant	SSC



From Desk of Head of Civil Department

Civil Engineering is a professional engineering discipline that is considered to be the most versatile branch among all the branches as it consists of large number of real life applications as compared to other fields of Engineering and Technology. Civil Engineer is considered as the base of modern civilization.

As the Civil Engineering is a wide-ranging profession, including several specialized sub-disciplines, its history is linked to knowledge of structures, materials science, geography, geology, soils, hydrology, environment, mechanics and other fields. It is the application of physical and scientific principles for solving the problems of society.

Department of Civil Engineering consists of well-developed laboratories equipped with instruments for soil testing, material testing, geology, applied mechanics, environment engineering and transportation engineering. Seminars, expert lectures and workshops get conducted by inviting experienced and knowledgeable faculties from the various institutes in order to enhance the practical knowledge of the students by making them aware about the various on-site and off-site existing difficulties with the best possible solutions for them. Technical tours and visits to the industries and water treatment plants also get organized for the students.

Department of Civil Engineering consists of a team of qualified and experienced staff members to serve the best of their knowledge for the students up gradation. There are total 16 members in teaching staff and 3 members in non-teaching staff having specialization in various fields of Civil Eng. such as Structure Eng., Transportation Eng., Urban Planning, Water Resources Management and Geotechnical Eng., serving their best for the welfare of the society through proper training of the civil students.

- Prof. Dr. Bhavin G. Patel

Teaching & Supporting Staff Members

Sr. No.	Staff Name	Designation	Qualification
1	Dr. Neeraj D. Sharma	Principal & Professor	Ph.D. (Civil Engg.)
2	Dr. Bhavin G. Patel	Associate. Prof. & Head of Dept.	Ph. D. (Civil-Structure Engg.)
3	Vikunj K. Tilva	Assistant Professor	M.E. (CASAD.)
4	Nilesh R. Parmar	Assistant Professor	M. Tech (Structural Engineering)
5	Sunil V. Jaganiya	Assistant Professor	M. Tech (Structural Engineering)
6	Pritesh R. Rathod	Assistant Professor	M. Tech (Structural Engineering)
7	Rajankumar J. Lad	Assistant Professor	M.E. (Transportation Engineering)
8	Krutika A. Chauhan	Assistant Professor	M.E. (Structural Engineering)
9	Jaldip J. Patel	Assistant Professor	M. Tech. (Structural Engineering)
10	Hemina Z. Patel	Assistant Professor	M.E. (Environmental Engineering)
11	Anita P. Patel	Lab Assistant	Diploma Civil Engineering
12	Bina D. Patel	Lab Assistant	Diploma Civil Engineering
13	Foram D. Patel	Lab Assistant	B.E. Civil Engineering
14	Shailesh A. Patel	Lab Attendant	S.S.C.



From Desk of Head of Electrical Department

As a Head of Electrical Engineering Department, GIDC Degree Engineering College it gives me immense pleasure to write this message for all my dear students.

Knowledge is internet in man, each of us carries the infinite library of the universe in our mind. The knowledge is covered & hidden like a mine. It is for us to unearth or discover. When the covering is being slowly taken off, we can say that we are learning. Education is the manifestation of the excellence already in man. The success of education depends upon the initiatives, self-realization & self-reliance.

The student must be pure in thought & speech. Student must have qualities like “Not Giving Up” & “Strong Desire”. He/she must have a continuous struggle; a constant fight within for applying with his/her honors nature, only then he/she can achieve victory & acquire the time knowledge. The teacher must have full sympathy for students. The true teacher is one who through whole force into the tendency of the talk. Without real sympathy teacher can never teach well.

A report on Indian education admits that “There is too much emphasis on western ideas, and teachers under training do not get exposed effectively to Indian philosophical and psychological concept of education”. Progressively erosion of values among teachers as well as students is seen as a highly dangerous development. Hence, there is a need of ethical education system which should be “Scientific” at the same time.

Education is not just a degree certificate. A degree certificate tells us that a person has a lot of information in one area, but that does not necessarily reflect his/her abilities and capabilities to live trustworthy. An educated individual is one who has the ability to differentiate between right and wrong & good and evil.

The end of education should be man-making. The end & aim of training should be to make men to grow.

- Prof. Dr. Rakesh J. Motiyani

Teaching & Supporting Staff Members

Sr. No.	Staff Name	Designation	Qualification
1	Dr. Rakesh J. Motiyani	Associate Professor & Head	PhD, ME (Electrical Power Engineering), BE (Electrical), MIE, MISTE, Chartered Engineer
2	Dhaval K. Patel	Assistant Professor	M.E.(Electrical Engineering)
3	Ketan K. Lad	Assistant Professor	M.E.(Electronics And Communication)
4	Bhavesh S. Patel	Assistant Professor	M.E.(Automation & Control/Power System)
5	Rohit B. Damor	Assistant Professor	M.Tech.(Power electronics, Machine & Drives)
6	Dhruvang R. Gayakwad	Assistant Professor	M.Tech.(Electrical Power Systems)
7	Bhavin S. Trivedi	Assistant Professor	M.E. (Power Electronics)
8	Khyati N. Naik	Assistant Professor	M.Tech.(Electrical Power System)
9	Jay R. Desai	Assistant Professor	M.E.(Electronics And Communication)
10	Dharmishtha T. Patel	Assistant Professor	M.E.(Electronics And Communication)
11	Ankur P. Desai	Assistant Professor	M.E.(Electrical Engg.(Power Systems))
12	Apeksha Desai	Lab Assistant	Diploma Engg.(Mechanical/Electrical Engg.)
13	Chetna Patel	Lab Assistant	Diploma Electronics & Telecommunication Engg.
14	Kamlesh Sonwane	Lab Assistant	B.Tech.(Electrical Engineering)
15	Nikunj Chaudhari	Lab Attendant	B.Com., MSW



From Desk of Head of Automobile Department

MISSION

To produce most competent engineers with learning facilities comparable to world class standards designing and manufacturing of modern fuel efficient, aerodynamic and eco friendly automobile systems through innovative ideas and practices.

- Prof. Toral V. Patel

ABOUT THE DEPARTMENT

The need of day is quick, cheap and easy transportation. With a population of over a billion people the automobile industry of our country can only grow by leaps and bounds.

To cater to the needs of ever expanding automobile industry, the department proposes an ever progressing process of learning and skill development to the eager students. The department consists of a committed faculty and well equipped labs like automotive components Lab, Engine performance and Emission testing Laboratory, Vehicle Servicing Laboratory, Automotive

Sensors and Controls Laboratory, Automotive Electrical and Electronic Laboratory, Automotive Embedded Systems Laboratory, CAD/CAM center, Thermal Engineering Laboratory, etc. The software packages available in the department include Pro-E, CATIA, ANSYS, for the faculty and aspiring students to pursue their research and project work.

The department also encourages all round development of students by conducting guest lecturers, arranging various in-plants training to get more practical knowledge, fieldtrips, recreational activities, industrial visits to renowned industries, supporting SAE (Society of Automobile Engineers events and also arrange Pradhan Mantri Kaushal Vikash Yojana (PMKVY) programs to train the unemployed youths.

Teaching & Supporting Staff Members

Sr. No.	Staff Name	Designation	Qualification
1	Toral V. Patel	I/C Head of Dept. & Assistant Professor	PhD Pursuing, M.Tech (Thermal Engg.)
2	Ashish O. Jain	Assistant Professor	PhD Pursuing, M.E. (I.C. Engines) Gold Medalist
3	Ankit K. Patel	Assistant Professor	M.E.(Automobile)
4	Sunil R. Khokhar	Assistant Professor	M.E.(Machine Design)
5	Mayur J. Jalanapurkar	Assistant Professor	M.E.(I.C.Engines & Automobile)
6	Kenal D. Tandel	Assistant Professor	M.Tech (Machine Design) Gold Medalist
7	Manoj U. Patel	Lab Assistant	Diploma in Mechanical Engineering
8	Dixit R. Patel	Lab Assistant	B.E. (Mechanical)
9	Anil Patel	Lab Attendant	SSC



From Desk of Head of ASH Department

It gives me pleasure to introduce the department of applied sciences and humanities which is like Unity in Diversity- as the department teaches various subjects like Mathematics, Organizational Behaviour, and Economics for Engineers, Principles of Economics and Management, English, Physics. In addition to this, department is also actively engaged with Entrepreneurial teaching. All are the foundation subjects for all the branches of engineering and technology, the vision is to enhance and empower the scientific temperament of the students through the knowledge of core courses of applied sciences and humanities.

The department offers excellent academic environment with a team of highly qualified faculty members to cater the needs of the students and to inspire them to develop their technical skills.

In addition to the primary teaching duties, some of them have their publications in national as well as international Journals of repute. Two faculties have successfully completed open seminar of their Ph.D. and submitted thesis to Gujarat Technological University under my supervision.

The methodology adopted in the classroom teaching is based on the application of innovation strategies, comprehensive lectures, regular assignments and active interaction between teachers and students.

The department is equipped with state-of-the-art facilities such as Physics lab, Language Lab with internationally accepted multilingual software etc.

Prof. Dr. Shailesh S. Patel

Teaching & Supporting Staff Members

Sr. No.	Staff Name	Designation	Qualification
1	Dr. Shailesh S. Patel	Professor & HOD	M.Sc. , Ph.D. (Mathematics)
2	Mr. Harshal G. Vashi	Assistant Professor	B.E. (I & C), M.B.A. (H.R.), Ph.D.Pursuing
3	Ms. Megha K. Tailor	Assistant Professor	M.Sc.(Mathematics), Ph.D.Pursuing
4	Ms. Ishita V. Panchal	Assistant Professor	M.B.A. (H.R.), Ph.D Pursuing
5	Mr. Aakash N. Patel	Lab Assistant	M.Sc. (Physics) Diploma(Mech.)
6	Mr. Bhavin Patel	Lab Attendant	H.S.C

Administration Centre

Transparent method of operation and hassle free work environment is a backbone of any department. Administration is a bridge between management and all the stake holders of the college. The college administrative department is committed to perform the entire task related to student like admission and all the other day to day matters, affiliation with university, extension of approval from AICTE, Recruitment of qualified & efficient staff, maintenance and enhancement of manpower and management of all accounting matters.

Administration Staff - GIDC Degree Engineering College

Sr. No.	Name	Designation	Qualification
1	Mr. Naik Ritesh R.	Office Superintendent	B.B.A.
2	Mr. Patel Sanjay T.	Accounts Officer	M. Com, LLB
3	Mr. Shukla Darshan N.	Clerk	B. Com, MBA
4	Mr. Patel Manish S.	Clerk	B. Com, LLB
5	Mr. Desai Nirav N.	Store Keeper	B. Com
6	Mr. Patel Parimal R.	Electrician	I.T.I.
7	Mr. Patel Sunil N.	Attendant	HSC
8	Mr. Deshmukh Gautam A.	Attendant	HSC
9	Ms. Patel Priti P.	Attendant	HSC
10	Mr. Ramanand N. Patel	Apprentice	B.E. Computer
11	Ms. Anisha I. Khalifa	Apprentice	M. R. M.

Central Library

Library is the heart of the institute; it is a belief to facilitate production & dissemination of knowledge, information, insights & intellect in all communities. Be it an academic program or a business program, the participants are facilitated with the latest reading resources from all over the world. Our Collage Library is well equipped with books of all discipline. Our library functions under the open access system. National, International journals and magazine are being subscribed in our library. And also we have an online journal. E books also available in library. Our library is fully furnished with all facilities. Seating capacity of the library is around 130 students.

- Mrs. Priyanka Kher
I/C Librarian

Library Book Details:

No. of Books	Titles : 1648	Volumes : 8307	
Journals & Periodicals	International Journal	6	47
	National Journal/Magazine	41	
E Journal	DELNET		
Newspaper	5		
Total number of CD/DVD	369		
Software	SOUL 2.0 software connected with INFLIBNET, Ahmedabad.		

Library Staff:

Sr.No.	Name	Designation	Qualification
1	Mrs. Priyanka S. Kher	I/C Librarian	M.Lib.
2	Mrs. Hemlataben Ahir	Lab Attendant	B.A



❖ 155th BIRTH ANNIVERSARY OF SWAMI VIVEKANANDA

Swami Vivekananda was born as Narendranath Dutta on 12th January 1863. He was a key figure in the introduction of the Indian philosophies of Vedanta and Yoga to the western world and was credited with raising interfaith awareness. He was a chief disciple of 19th century saint Ramakrishna and founder of Ramakrishna Math and Ramakrishna mission. The 155th Birth Anniversary of Swami Vivekananda is celebrated all over the country giving a message to the youth the way of life and ideals that will make India a better country in future.

The students were enlightened about the relevance of his principles in the present world. The celebration started with lamp lighting and offering garland to the image of Swami Vivekanand. Faculty Pankti Naik from Computer Engineering Department shared the life events of Swami Vivekanand with the students. Student Saarth Desai of 8th Semester Automobile Engg. gave an impactful speech to encourage students to follow the philosophy of Vedanta and Yoga. The programme was well received by all the faculty and the students attended. The event was Co-ordinated by Prof. Archana Nayak, Prof. Toral Patel, Prof. Harshal Vashi, Prof. Ankit Patel, Prof. Kaushik Patel, Nilesh Patel and Dixit Patel.



❖ Drug Free India Campaign

GIDC Degree Engineering College, participated in launch of “Drug Free India Campaign” via live webcast on 19th February, 2019. The event was inaugurated by light lamps. Principal Dr. Neeraj D. Sharma addressed the students and faculties with their welcome speech.



❖ GTU Foundation Day

GIDC Degree Engineering College, Navsari celebrated GTU Foundation Day on 16th May, 2019. The celebration was started with GTU Song. Principal Dr. N.D. Sharma shared a few words on the occasion. The achievement of GTU was showcased by Asst. Prof. Nisha. S. Parekh. After that all the students and faculty members took pledge that they will try to contribute to the society and nation. They will also help the country to keep it neat and clean and contribute to control environmental pollution. The celebration was ended with tree plantation.



❖ World Environment Day - Better Environment Better Tomorrow Save the Planet



World Environment Day is celebrated every year worldwide on 5th of June. It was established by the United Nations General Assembly in 1972 in order to raise global awareness about the environmental issues. It is celebrated to motivate people to take positive environmental actions in order to protect the nature on this planet. Today (05-06-2019), GIDC Degree Engineering College, Navsari celebrated Happy world Environment Day by planting more trees and watering the plants. We promise each other to don't cut trees and to plant more and more trees as possible.

❖ International Yoga Day Celebration - 2019

GIDC Degree Engineering College, Abrama enthusiastically celebrated 5th International Yoga day, at GDEC Campus on 21st June, 2019, Friday. It was grand convergence of Yoga practice. Many students and staff took part in this celebration and practiced YOGA. It was a matter of joy for all Yoga Enthusiasts that the "Vishva Yoga Divas- WORLD YOGA DAY" got declared to be celebrated on June 21st. The day was chosen as it's the longest day of the calendar year, a day connected with Sun, light and nature and not a day of personal importance. The program was conducted using common YOGA protocol. Proper scientific instructions were given for all the yoga asanas and all the participants performed it as per instruction. Various asanas like Makarasana, Pavanmuktasan, Tadasan, Vrikshasana, Savasan, etc. were performed and its uses were told to all. Yoga develops strength and balance as well as inner peace. All yoga styles create a feeling of lightness, ease and relaxation. The participants felt that YOGA helps to tie the strands of mind together with our body through our breath.



❖ 73rd Independence Day Celebration

The National festival of 73rd Independence Day was celebrated with joy and pride at GIDC Degree Engineering College, Abrama, Navsari, in the valuable presence of honourable guest Shri Satishchandra R. Naik, Chairman of Gujarat State Co-op. Fruit & Vegetables Marketing Federation Ltd. and Social along with the trustee member Shri C A Vinodchandra Desai, Principal Dr. N. D Sharma, teaching, non-teaching, supporting staff and students. After the introductory words about Independence Day by Dr. Nisha S. Parekh and Principal Dr. N. D. Sharma welcomed all the guests. The flag was unfurled by Shri Satishchandra R. Naik. Everyone gave respect to the national flag by saluting it and by rhythmic singing of the National Anthem. All the guests gave the inspirational speech. The celebration was ended with the vote of thanks by Dr. Nisha S. Parekh.

The celebration was successfully organized under the coordination of Dr. Shailesh S. Patel with his dynamic team Prof. Ashish Jain, Prof. Mayur Patel, Dr. Nisha S. Parekh, Mr. Parimal Patel and all the supportive staff.



Training & Placement Cell

- Exploring placement opportunities by inviting various companies for campus recruitment of students.
- To create a corporate friendly atmosphere in the college campus and to train & prepare the students, to face the rigors of professional world.
- To create GDEC as a preferred destination for companies to conduct their placement activities.

With the joint effort from department HOD's, staff members and T&P cell following students were successfully placed.

Training & Placement Team

Training & Placement Officer In-Charge	Prof. Harshal G. Vashi
Department Coordinators for Training & Placement	Prof. Sunil R. Khokhar, Prof. Mayur J. Jalanapurkar, Prof. Kenal D. Tandel, Prof. Sunil V. Jaganiya, Prof. Rajan J. Lad, Prof. Jaldip J. Patel, Prof. Kaushal T. Kevadia, Prof. Pankti S. Naik, Prof. Kushal D. Patel, Prof. Ketan K. Lad, Prof. Dhruvang R. Gayakwad, Prof. Khyati K. Naik, Prof. Dhaval S. Chaudhari, Prof. Harsh R. Naik, Prof. Ishita V. Panchal, Mr. Darshan N. Shukla

Placement Record 2018-19

Sr. No.	Students Name	Department	Company Name
1	Nisha Bhalodia, Viraj Kansara, Parth Panchal	Computer	Jack Solution
2	Rinkal Rameshbhai Patel	Computer	SSM InfoTech
3	Dhanraj Yadav, Vasudha Saraivaiya	Computer	NNC
4	Maitri Desai	Computer	Sthapati
5	-	Computer	Toshal Infotech
6	Halpati Vaisahli, Mrunali Rathod, Charmi Patel	Computer	Hope Foundation
7	-	Computer	Palsoft
8	Rinkal Rameshbhai Patel	Computer	SSM InfoTech
9	Kavita Patil	Computer	LANET Team Software, Surat
10	Devanshi Tandel, Mayuri Patel, Dipal Patel, Anjali Patel, Bhaumik Patel, Karan Katira	Computer	Radixweb, Ahmedabad
11	Patel Khevna, Patel Bhaumik	Computer	SSM InfoTech, Surat
12	-	Computer	e-infochip, Ahmedabad
13	-	Computer	Matrix Cosmec, Vadodara
14	Neel B Patel, Anjali Patel, Karan Katira	Computer	Casepoint, Surat
15	Bhaumik Patel, Yash Ramani	Computer	Xcellence-IT, Surat
16	-	Electrical	Jio Giga Fiber
17	Sajan Tandel, Jigar Tandel, Karan Tandel, Snehal Tandel	Electrical	B. P. Marine Academy
18	Tejan Desai	Electrical	FLEXPRO Electricals Pvt. Ltd.
19	Gandhi Smit, Mirza Aejaz, Patel Naushad, Patel Harsh, Patel Madhusudan	Mechanical	Tucson Hydrocontrols Pvt.Ltd.
20	Patel Tejas, Gandhi Nirav, Patel Arpit, Boda Prashant	Mechanical	Sona Extrusion Pvt. Ltd., Navsari



✿ Internship Training

Mechanical Engineering Department	Zydus pharmaceutical Healthcare Limited; NHB Ball & Roller Co. Ltd.; Tucson Hydro-Controls Pvt. Ltd.; SONA Extrusion Pvt. Ltd.; ACEY Engineering Pvt Ltd; Atul Ltd ; Paresh Engineering Corporation; Spectrum; Jinal Engineering/Suresh Mechanical Work; HydrotronicIndustries; BipicoIndustries Private Limited; KabraExtrusion Technic LTD; Universal Plastic; Techno Gear ;Chemiteck Equipment;; AnkurSteel Fabricators; GMM Pfadler; Dhanlaxmi enterprises; Metafore Casting PVT. LTD;Prakash Industry and E.M Tech Fabrication etc.
Electrical Engineering Department	Atul Ltd., Atul, Ideal Technologies, Vapi, GETCO, Navsari and Naran Lala, Navsari
Computer Engineering Department	CASEPOINT PVT. LTD., Surat, Finlogic Tech Ind Pvt Ltd, Surat (NJ Group),SSM Infotech Pvt. Ltd.
Automobile Engineering Department	Acey Engineering, Bilimora, Kataria Automobile Pvt. Ltd., Navsari, Kataria Automobile Pvt. Ltd., Chikhli, Kataria Automobile Pvt. Ltd., Surat, Navjivan Hyundai, Navsari, Navjivan Hyundai, Surat, Volkswagen Service Centre, Navsari, Mquik Service Station, Surat., NHB Bearings Ltd., Amalsad

✿ A session on “JOB OPPORTUNITIES IN TATA CONSULTANCY SERVICES AND OTHER CORPORATES”

A session on “JOB OPPORTUNITIES IN TATA CONSULTANCY SERVICES AND OTHER CORPORATES” has been conducted for Final Year and Pre- Final Year Students of all branches on 28-02-2019 at 11:00 am to 12:30 pm. Discussion during session: Various kinds of qualifying tests have been conducted by Tata Consultancy Services like TCS National Qualifier Test (TNQT), Common Corporate Qualifier Test (CCQT). In addition, a Free 20 Hour Webinar Program to help students prepare for placement, A program comprise of coaching on aptitude, logical reasoning, basic programming, interview techniques and also overview sessions on the latest Business 4.0 domains such as Analytics, Cloud, Blockchain, Machine Learning, etc. offered by TCS’s Leadership team have been discussed

✿ A Report on Entrepreneurship Development Program (Modulr-II) organised by Entrepreneurship Development Cell, GIDC Degree Engineering College, Abrama, Navsari sponsored by The Center for Entrepreneurship Development, Gandhinagar

Duration: 4th-27th September, 2019

Conveners: 1) Prof. Harshal G. Vashi, Assistant Professor & ED Cell In-charge

2) Dr. Rakesh J. Motiyani, Associate Professor & Head, Electrical Engg. Department

Co-ordinators: 1) Prof. Dhruvang Gayakwad, Assistant Professor, Electrical Engg. Department

2) Prof. Ketan Lad, Assistant Professor, Electrical Engg. Department

3) Prof. Harsh Naik, Assistant Professor, Mechanical Engg. Department

4) Prof. Dhaval Chaudhari, Assistant Professor, Mechanical Engg. Department



Unnat Bharat Abhiyan

GIDC degree Engineering College has registered in the Unnat Bharat Abhiyan program initiated by the Ministry of Human Resource Development, Govt. of India. GIDC Degree Engineering aims to identify the development challenges and needs of a village and find appropriate solutions with Professional Resource Support from institute to meet these needs. The names of the adopted villages are - (a) Abrama, (b) Mandir, (c) Vedchha, (d) Kharsad, (e) Sarav – Sarav Gram Panchayat

•Households data Survey of Abrama Village

At Abrama Village Prof. Nilesh Parmar, Prof. Harshal Vashi along with 10 volunteer students arranged village visit in order to communicate with local people effectively and on these days survey were taken from around 40 households.

•Participating Institutes Meeting at SVMIT, Bharuch

The meeting with the participating institutes (PIs) was called by Regional Coordinating Institutes SVNIT, Surat at Shri S'ad Vidya Mandal Institute of Technology, Bharuch. Two faculties, Prof. Nilesh Parmar (UBA Nodal Officer) and Prof. Dhaval K. Patel, had attended this meeting on 15th September 2019

•Tree Plantation program at College Campus

In order to increase greenery and for a healthy environment Unnat Bharat Abhiyan Team of GIDC Degree Engineering College, Abrama, Navsari has organized a Tree Plantation program at Abrama village on 16th August, 2019 under the auspices of UNNAT BHARATABHIYAAN 2.0.

•Induction Program-Village Visit under Unnat Bharat Abhiyan 2.0

As a part of Induction Program, Unnat Bharat Abhiyan 2.0 committee took an initiative to organize one day village visit on 24th July 2019 for the 1 st year students. Main Objective of this visit was to make the students aware about the life of village residents and their problem. During this visit students did questionnaires to village people regarding their daily routine, their village problem, etc.

Prof. Dhaval K. Patel, Prof. Pritesh Rathod, Prof. Ankit K. Patel, Prof. Bhumika Patel and Prof. Hitesh Rana with coordinating Prof. Nilesh Parmar (UBA Nodal Officer) provided an opportunity to the students to gain real world experience to engineering students and beexposed to the rural areas (Sarav and Vedchha) and simultaneously apply their technical knowledge in the development of infrastructure in villages.

•Unnat Bharat Abhiyan 2.0

In order to increase greenery and for a healthy environment Unnat Bharat Abhiyan coordinator Nilesh Parmar and his Team of GIDC Degree Engineering College, Abrama, Navsari has organized a display the UBA banner and Tree Plantation program at GIDC Degree Engineering College on 16th August, 2019 under the auspices of UNNAT BHARAT ABHIYAAN 2.0 – an initiative of Ministry of Human Resource and Development (MHRD).

Advisory committee		
1	Dr. Neeraj D. Sharma	Principal
2	Prof. Nilesh R. Parmar	Nodal Officer, Unnat Bharat Abhiyan

Working Committee		
Sr. No.	Name	Department
1	Prof. Pritesh R. Rathod	Civil Department
2	Prof. Dhaval K. Patel	Electrical Department
3	Prof. Ketan K. Lad	Electrical Department
4	Prof. Hetal M. Patel	Computer Department
5	Prof. Ankit K. Patel	Automobile Department
6	Prof. Harshal G. Vashi	ASH Department
7	Prof. Bhumika H. Patel	Computer Department
8	Prof. Hitesh C. Rana	Mechanical Department
9	Prof. Kushal D. Patel	Computer Department
10	Mr. Nilesh G. Patel	Computer Department



❖ Plogging Run Activity under 150th Birthday celebration of Mahatma Gandhiji

On Occasion of 150th birth anniversary of Mahatma Gandhiji the Father of Nation, College has celebrated with utmost reverence and Organizing FIT INDIA Plogging Run as it would be a befitting tribute to our Father of the Nation. Benefits of "plogging"- jogging while picking up litter. Cleanliness is a need of the present because it will keep you away from disease. With the help of plogging "the most important thing is that waste is being taken out of nature." Mahatma Gandhi had cleanliness and sanitation closest to his heart. This



happens not just with the Government, but with public participation. That is why we have to do it together." Students as well as Faculty member had play active role in cleaning our campus i.e. Offices, Department Building and laboratories and its surrounding areas. Organizing Team of Plogging Run Activity under 150th Birthday celebration of Mahatma Gandhiji

Patron : Prof. Dr. N. D. Sharma, **Programme Coordinators :** Prof. Archana Nayak, Prof. Toral Patel

Department Programme Coordinator :

Prof. Brijesh Patel (Computer Department)

Prof. Kenal Tandel (Automobile Department)

Prof. Jaldip Patel (Civil Department)

Prof. Dhaval Patel (Electrical Department)

Prof. Hariketan Patel (Mechanical Department)

Mr. Dixit Patel (Automobile Department)

Ms. Amruta Naik (Computer Department)



❖ Thalassemia Screening and Prevention Programme

The GIDC Degree Engineering College with assistance of Red Cross society Ahmedabad branch organized thalassemia screening and prevention programme in the college premises on 21/01/2020. About 47 first years admitted students from all branches were participated in thalassemia screening and prevention programme and understand the meaning of testing Thalassemia and its advantages for coming generation.

The Principal Dr. N. D. Sharma acknowledged the organizing team of the camp. The camp was organized by Prof. Dr. H.S. Patil, with a team of Dr. D.C. Patel, Prof. Hitesh C. Rana, Prof. Bharat H. Gajera, Prof. Akash A. Patel, Prof. Dharmik A. Patel, Mr. Hitesh Patel, Mr. Brijesh Patel, Mr. Divyesh Patel and Ms. Amruta Naik. The GDEC teaching and supporting staff played a key role in successful organization of the camp. This camp helped students in getting awareness about their social responsibilities and showed enthusiastic participation for the same.



Computer Engineering Department

Revenue Generation under Facility Agreement



GIDC Degree Engineering College (GDEC) is in agreement with various reputed company like NSEIT Ltd., Bizzlon Management Solutions Pvt. Ltd., Sify Technologies Ltd., ACE Integrated Solutions Ltd., etc. Under this agreement Computer Engineering Department has successfully hosted multiple online examinations at GDEC premise. The details of online exam/s held during year 2019 are as mentioned below

Sr. No.	Exam Conducting Agency	Name of Examination	Date/s	Allotted Candidate Strength	Revenue Earned (INR)
1	ONGC	Bizzlon_Sify	08 to 12-Jun-2019	1143	51000/-
2	NPCIL	ACE Int. Sol. Ltd	15 & 16-Jun-2019	454	30000/-
3	RRB	NSEIT Ltd.	21-Jul-2019	302	14490/-
2	GSECL	NSEIT Ltd.	13-Oct-2019	150	11450/-
2	NPCIL	Satvat Infosol	07 to 11-Nov-2019	1629	105510/-
Total					218027/-

Computer Engineering Department continues to play significant role to generate revenue for the GIDC Degree Engineering College. As a Test Center Administrator Ms. Archana Nayak (Head, Computer Engg. Dept.) leads a dedicated team which is well equipped to deliver quality services. Team Members for above mentioned Exam/s :-

(1)Kaushik Patel (2)Kaushal Kevadia (3)Brijesh Patel (4)Mihir Mishra (5)Kushal Patel (6)Vibhuti Patel (7)Tejas Patel (8) Sunil Khokhar (9)Dharmishtha Patel (10)Rohit Damor (11)Himanshu Patel (12)Nilesh Patel (13)Amruta Naik (14) Ritesh Naik (15)Manish Patel (16)Hitesh Patel (17)Apeksha Desai (18)Chetna Patel (19)Kamlesh Sonwane (20)Ramanand Patel (21)Parimal Patel (22)Harish Patel (23)Anil Patel (24)Bhavin M. Patel (25)Bhavin R. Patel

GDEC has also done new tie-up with Satvat Infosol Pvt. Ltd. through Computer Engineering Department as an expansion of departmental consultancy work which will lead towards more financial benefit for institute in future.

Civil Engineering Department

- Prof. Sunil Jaganiya completed consultancy work of 'Proof checking' of '4-storey multi-level Industrial Shed building' of Icchapore in Bhatpore Industrial Estate, Surat.
- Dr. Bhavin Patel, Prof. Sunil Jaganiya and Prof. Pritesh Rathod completed Consultancy work of the well-known pharmaceutical industry of Navsari 'Trefer Pharmasutical Pvt. Ltd' to check the stability of the production unit.
- Dr. Bhavin Patel, Prof. Vikunj Tilva, Prof. Sunil Jaganiya, Prof. Nilesh Parmar and Prof. Pritesh Rathod completed work of "Stability Inspection of Elevated Water Tanks and Underground Sump" at GIDC, Vapi, which is heart of Vapi industrial estate for water supply in the field of Hydraulic Engineering.
- Prof. Sunil Jaganiya for institute's profitability accomplished "Structure Design and drawings, estimation, costing, testing of materials and project management" for proposed approximately '10 lakhs Rupees Workshop' in the Automobile Engineering Department of college with other faculties.
- Prof. Rajan Lad, Prof Nimit Raval, Prof. Nilesh Parmar, Prof. Pritesh Rathod, and Prof. Jaldip Patel have carried out the material testing in the field of 'Transporation Engineering'. They successfully completed the material testing work of 'Flexible Pavement with SWD and CD' for the project work in GIDC Khajod and Kalana Industrial Estate.
- Dr. Bhavin Patel, Prof. Pritesh Rathod and Prof. Jaldip Patel had carried out soil investigation with testing of soil for the proposed new construction of 'Balaji Food and Cold Storage' on Sampura road, Bardoli.
- Dr.Bhavin G. Patel, Prof. Nilesh Parmar and Prof. Pritesh R. Rathod Conducted NDT test and conditional assessment of Umargam GIDC structure.
- Prof. Vikunj Tilva and Prof. Sunil Jaganiya Conducted NDT test and conditional assessment of Sarigam GIDC structure.
- Prof. Pritesh R. Rathod and Prof. Jaldip patel Conducted NDT test and conditional assessment of Chasa Muslim Welfare Society, Bilimora.

❖ STTP on Applications of PLC and SCADA in Industrial Automation

Electrical Engineering Department has organized GUJCOST sponsored one week training programme on “Applications of PLC and SCADA in Industrial Automation” during 15th to 19th July, 2019. Students and teachers of GTU affiliated Engineering Institutes have participated in this training programme.

Mr. Vinay Chavda (Ex. Maintenance Head, Tata Steel, Navsari) was invited as guest of Inaugural Session. Dr. N. D. Sharma (Principal) has delivered welcome speech to the participants and guests. Dr. A. K. Dave (Member-GIDC Education Society) has



encouraged to participants for updating their knowledge of PLC & SCADA through this training programme. Dr. R. J. Motiyani (Head-Electrical Engineering Department) has briefed about the training programme. Also, on behalf of the Institute and participants he thanked Gujarat Council on Science & Technology (GUJCOST) for providing financial support for organizing the training programme.

The objective of this training was to upgrade the technical skills of students & to nurture fundamental & advanced concepts in the era of PLC and SCADA. This training programme gave exposure of PLC Architecture, Introduction of ladder diagram, structure of PLC program, elements of ladder diagram, execution of PLC programs using Siemens SIMATIC S7-200 PLC hardware. Participants have also learnt about Interfacing of PLC with different type of sensors and specific industrial automation applications like stamping process, shear press, conveyor based inspection & sorting and bottle filling.

All the participants have visited fully automated PLC and SCADA based Sewage Treatment Plant of 40 MLD and Tertiary Treatment Plant (TTP) of 100 MLD capacities situated at Bamroli, near Surat. Prof. Ankur Desai, Prof. Rohit Damor, Prof. Bhavin Trivedi and Mr. Kamlesh Sonwane have coordinated the training programme under the guidance of Dr. N D Sharma (Principal) and Dr. R J Motiyani (Convenor).

Prof. (Dr.) N. D. Sharma (Principal), head of all departments, faculties and participants were remain present during valedictory session. Prof. (Dr.) N. D. Sharma has discussed about how the knowledge of PLC and SCADA can provide a bridge between academics and industry. He also congratulated coordinators for successfully organizing the training programme.

Prof. (Dr.) R. J. Motiyani has concluded the five days training programme with Vote of Thanks.

❖ One Day FDP on “Student Induction Program”

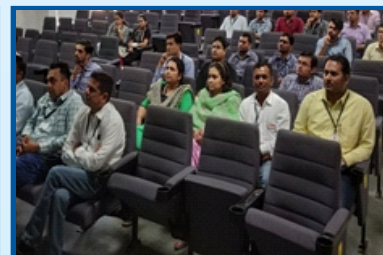
Prof. Ashish O. Jain (Automobile Engg. Dept.) and Prof. Ankur P. Desai (Electrical Engg. Dept.) had successfully conducted A one day Faculty Development Program on “Student Induction Program” organized at the Seminar Hall of Electrical Engineering Department, GIDC Degree Engineering College, Abrama-Navsari on 29th March, 2019.

Prof. Ashish Jain and Prof. Ankur Desai have attended the 3-days FDP on Student Induction program held at VGEC, Chandkheda sponsored by AICTE. They both are eligible to be the mentors for training faculties at GDEC.

The session was started by the Introduction of Student Induction Program for the newly admitted first year students by Prof. Ashish Jain and proceeded further with the 45 minutes video presentation about “Why student matters and how to motivate/Guide them with Induction” of Dr. Rajeev Singhal, Director, IIT-BHU.

Finally the FDP concluded with the open discussion between the speakers and faculty members regarding - how to bring newly admitted first year students from “animal consciousness to human consciousness”, “efforts to be done for mutual happiness and mutual prosperity instead of running for Physical needs” and about creating “right understanding” in the students themselves to inculcate such values in their life to create harmony with themselves, family, society and world.

Thirty five faculty members along with lab assistants and including Heads of various departments participated and gave their valuables suggestions about the student induction program and also wished good regards to continue such wonderful and must required understandings which will make our future generations grow in order to develop the nation.



❖ Two day workshop on “Orientation of StartUPS and Innovative Android Application Development using Android Studio”

SSIP cell and Computer Engineering Department of GIDC Degree Engineering College, Abrama, Navsari are organizing 2 day workshop on “Orientation of StartUPS and Innovative Android Application Development using Android Studio” during 8th -9th March, 2019. This workshop is hands-on approach program which is designed for providing essential skills and experiences to the students in developing android applications. Prof. Archana Nayak, Head of Computer Department, introduces about the various SSIP activities and motivate participant for the Start-UPS. In addition, she gave brief information about Android Operating System.

On Day 1, Prof. Kushal Patel gave brief introduction about an Android operating system and android Application Framework. In addition, he teaches participants to make first application in android. Furthermore, he conducted hands-on session on various Android Layouts. Prof. Brijesh Patel teaches participants about utilizations of Intents and Activity in android applications. In addition, he conducted hands-on session on UI Controls and its application in various android Apps.

On Day 2, Prof. Kaushik S. Patel conducted Interactive hands on session on SQLite Database manipulation in Android Application. Participants learn how data can be inserted, deleted in Applications using SQLite Database. Prof. Tejas Patel gave brief information about Firebase and its application. Participants developed an Android app that updates live data to/from cloud in Android apps.



Around 50 students of various colleges are participating in this workshop.

❖ Two day workshop on “Ethical Hacking and Cyber Security”

Two day workshop was organized by SSIP cell and T&P cell, Computer Engineering department on 20th and 21st September, 2019. Cyber Security is one of the burning issue today and to make students aware of it was the objective of this workshop. There were 25 student participants attended this workshop. Mr. Abhash Singh, Mr. Vivek Kumar Singh, Mr. Smit Patel from FUIAI Technologies, Vapi was invited expert for the Workshop. This workshop was focus on Cyber threats, Ethical hacking, how to be secured in the internet and Startup opportunity in Cyber Security.

Following topic are covered in the workshop

Trace ip, Nmap , Wireshark, Parrot Os, Cross site scripting, Phishing attack, Bruteforce attack, Html injection, Android phone hacking, Wifi hacking

The workshop was ended with full of Information and vision of being safe and secure in the virtual world.



❖ Workshop Conducted at Government Diploma College of Vyara

A One Day Workshop on “Programmable Logic Controller and Its Applications” was conducted by Prof.(Dr). R.J.Motiyani and Prof. Ankur P. Desai of Electrical Engineering Department of GIDC Degree Engineering College, Abrama, Navsari on 22.01.2019 at Government Polytechnic, Vyara.

Total 35 students of final year diploma had enthusiastically participated in this workshop. In this workshop students had got opportunity to gain knowledge of industrial automation, ladder logic in PLC software, basic programming of timer/counter/Boolean Logics and special memory bits in STEP 7 - Micro/WIN using 7 200 Siemens PLC Kit.

On behalf of their institute, Principal and Prof. Himanshu Chaudhari, I/C HOD of Electrical Engineering Department of Government polytechnic, Vyara had appreciated the efforts made by Prof.(Dr). R. J. Motiyani and Prof. Ankur P. Desai.



❖ Workshop Conducted at Government Diploma College of Palsana

A One Day Workshop on “PLC and Its Industrial Applications” was conducted by Prof. Ankur P Desai and Mrs. Apexa Desai of Electrical Engineering Department of GIDC Degree Engineering College, Abrama, Navsari on 21.01.2018 at Jayvantrai Harrai Desai Polytechnic, Palsana.

Total 37 students of final year diploma had enthusiastically participated in this workshop. In this workshop students had got opportunity to understand knowledge of industrial automation, ladder logic in PLC software, basic programming of timer/counter/boolean Logics and special memory bits in STEP 7 - Micro/WIN using s7 200 siemens PLC Kit.

On behalf of their institute, Prof. Dipak D. Purohit, Principal and Prof. Nirlep P. Joshi, I/C HOD of Electrical Engineering Department of Jayvantrai Harrai Desai Polytechnic, Palsana had appreciated their efforts made by Prof. Ankur Desai and Mrs Apexa Desai. The workshop was conducted under the guidance of Prof.(Dr). R. J. Motiyani.



❖ Expert lecture session on STAAD Pro. Software by Civil Engineering Dept.

Expert lecture session organized on STAAD Pro. Software in different Diploma Engineering College as mentioned below:

Sr. No.	Diploma College Name	Date	Involved faculty
1	Government Polytechnic WAGHAI DIST-DANG	1stFebruary,2019	Dr. Bhavin Patel, Prof. TilvaVikunj, Prof.SunilJaganiya
2	Government Polytechnic VALSAD	19th February,2019	Dr. Bhavin Patel, Prof. TilvaVikunj
3	Jayvantrai Harrai Desai Polytechnic, PALSANA	6th March,2019	Dr. Bhavin Patel, Prof. TilvaVikunj

❖ Workshop Conducted at Government Diploma College of Valsad

A One Day Workshop on “Programmable Logic Controller and Its Applications” was conducted by Prof. Ankur P. Desai and Mr. Nikunj Chaudhari of Electrical Engineering Department of GIDC Degree Engineering College, Abrama, Navsari on 28.01.2018 at Govt. Polytechnic, Valsad.

Total 60 students of final year diploma had enthusiastically participated in this workshop. In this workshop students had got exposure of industrial automation, ladder logic in PLC software, basic programming of timer/counter/boolean Logics and special memory bits in STEP 7 - Micro/WIN using s7 200 siemens PLC Kit.

On behalf of their institute, Principal and Prof. S.C. Patel HOD of Electrical Engineering Department of Govt. Polytechnic, Valsad had appreciated the efforts made by Prof. Ankur Desai and Mr. Nikunj Chaudhari.

The workshop was conducted under the guidance of Prof.(Dr). R. J. Motiyani.



❖ One day workshop on Revit Architecture software



Civil Engineering Department had successfully organized one day workshop on Revit Architecture software with the association of SOPAN institute, Surat on 12th July 2019 at Civil Engineering Department. Total 30 numbers of students had participated and performed hands-on

practise on Revit Architecture. This workshop was coordinated by Dr. Bhavin G. Patel and Prof. Vikunj Tilva.

❖ Workshop on “Manufacturing Processes and CNC Machining”

Mechanical Department conducted 2-days workshop for final year mechanical students on “Manufacturing Processes and CNC Machining” on dated 30th - 31st August, 2019. In present era, Industries are in great need of professionals with thorough knowledge of manufacturing process and CNC programming in India and Abroad. Manufacturing trend has made a quantum leap towards CNC from conventional methods. The workshop aimed to make one familiar with the various manufacturing operations/processes; manual/computer assisted programming, CAM simulation on Fanuc/Siemens/ Hass controller machine. The programme was coordinated by Prof. (Dr.) H. S. Patil and Prof. Dr. D. C. Patel and supported by institute SSIP Cell.



❖ One day workshop on “Soft Skills”

Civil Engineering Department had successfully organized one day workshop on “Soft Skills” on 20th July, 2019 at Civil Engineering Department. Such kind of workshop can build extraordinary skill for students. Promotion of professional education will be helpful to future engineers for achieving their extreme end. This workshop was coordinated by Dr. Bhavin G. Patel, Prof. Pritesh R. Rathod, Prof. Jaldip Patel and Prof. Nimit Raval.

❖ Workshop on “Energy Conservation Awareness”

Electrical Engineering Department has organized Gujarat Energy Development Agency (GEDA) sponsored a one day workshop on “Energy Conservation Awareness” on 23.09.2019.

The inaugural session of the workshop was graced by Shri A C Patel (Executive Engineer, Civil, GIDC Vapi), Shri K N Shah (Executive Engineer M & E, GIDC, Vapi), Shri B N Raval (Eminent Expert), Shri R N Pandya (Eminent Expert), Dr. S S Patel (Head ASH) and Dr R J Motiyani (Head EED). All the dignitary guests were facilitated & welcomed with the flower by the Head of departments during the inaugural session.

Dr. R J Motiyani, Head of Electrical Engineering Department had delivered a welcome address & encouraged the students for Energy Conservation. Total 78 students and 15 faculty members of Electrical, Computer and Automobile Engineering have participated in this awareness workshop. The workshop was conducted by Shri R N Pandya and Shri B N Raval on behalf of GEDA. The workshop was coordinated by Prof. Ankur Desai, Prof. Rohit Damor and Prof. Bhavin Trivedi under the guidance of Dr. R J Motiyani.



❖ Expert Lecture on Advance Technology for Wastewater Treatment



Civil Engineering Department of GIDC Degree Engineering College Abrama, Navsari organized expert lecture on “Advance Technology for Wastewater Treatment” in Water and Wastewater Engineering Field for 3rd year students on 11th February, 2019. Expert lecture was delivered

by Prof. Ketan D. Patel (Assistant Professor, Civil Engineering Department, at R.N.G. Patel Institute of Technology, Bardoli, Navsari). Dr. Neeraj D. Sharma (Principal) and Prof. Hemina Patel co-ordinate the whole event.

❖ Expert Lecture on “Computer Aided Modeling and Designing of Structures”

On 11th September 2019, an expert lecture for 7th semester students was organized by Prof. Nilesh Parmar and Prof. Vikunj Tilva on “Computer Aided Modelling and Designing of Structures”. As an expert, Prof. Dr. Jigar Sevalia (Professor, SCET, SURAT) was invited. His explanation regarding basic fundamentals of structural engineering was very remarkable. He explained behaviour



of different liquid retaining structures and also hands on practice were performed in computer room on STAAD PRO software.

❖ Expert session on “Modelling Using NX CAD Software”

Mechanical Engineering Department has arranged an Expert session for “Modelling Using NX CAD Software” on 16-03-2019. NX, formerly known as “UG”. In 2000 Unigraphics purchased SDRC I-DEAS and began an effort to integrate aspects of both software packages into a single product which became Unigraphics NX or NX. NX is an advanced high-end CAD/CAM/CAE, which has been owned since 2007 by Siemens PLM Software. It is used, among other tasks, for Design (parametric and direct solid/surface modelling) Engineering analysis (static; dynamic; electro-magnetic; thermal, using the finite element method; and fluid, using the finite volume method). Manufacturing finished design by using included machining modules. The session was delivered by Mr. Kaushik Patel, Expert of NX CAD and owner of CADD Center Valsad. The expert session was organized for 6th semester students of Mechanical engineering department regarding the subject offered COMPUTER AIDED DESIGN by GTU. In this session thorough knowledge and detail explanation of 2D Sketching, 3D solid Modelling and assembly, surface modelling, sheet metal and reverse engineering were given by expert. This expert session was attended by about 96 students and faculty of mechanical engineering department. The session was coordinated by Mr. Mayur R Patel and Mr. Hariketan B. Patel



❖ INFOTAINMENT SYSTEM by Mr. Nirav Joshi (Automobile Industry Person)

An expert lecture session was organized on 05th January, 2019 on the Topic “Infotainment System in Automobiles” for all the Automobile Engineering students of GDEC, Abrama-Navsari by the Department.

Mr. Nirav Joshi had worked with the two Automobile companies (Tata Motors -Pune, Volkswagen India Pvt. Ltd.-Pune) in India and he is now joining the league of Electric vehicle Automobile group. It's our pleasure to have him as a speaker for students.

Mr. Nirav with his expertise in Automobile After sales experiences shared so much of technical as well as practical knowledge with our Students. Students were explained various technologies of INFOTAINMENT (Information + Entertainment) System which has now become one of the important criteria for selection of four Wheeler/passenger cars.

Students were inspired and very much over whelmed by his knowledge and experiences. Lastly, the session ended with the solutions to the queries of students as well as faculties.



❖ Workshop Conducted By Mechanical Engineering Department, GDEC-Abrama at Government Polytechnic- Navsari, Valsad, Waghai and J.H Desai Polytechnic Palsana

The staffs of mechanical engineering department has been delivered an exposure on 3D modelling software-Solidworks to the second and third year students of mechanical engineering at Government Polytechnic Navsari (on dated 18th January 2019), Government Polytechnic Valsad (on dated 28th January 2019), Government Polytechnic Waghai (on dated 1st February 2019) and J H Desai Polytechnic Palsana (on dated 8th February 2019). The topic was on "Modelling of Mechanical Systems Using Solidworks Software". The workshop aimed how modelling enables designers to test whether design specifications are met by using virtual rather than physical experiments. The use of virtual prototypes significantly shortens the design cycle and reduces the cost of design. The topics covered- Solidworks Sketch Modelling, Basic Part Modelling, Solid works drawing etc.

More than 250 students with their faculties were attended the seminar from these polytechnic colleges. The team joined for workshop session was Prof. (Dr.) H. S. Patil / Prof. (Dr.) D. C. Patel / Prof. M. R. Patel / Prof. B. S. Naik / Prof. D. A. Patel and Prof. T. N. Patel



❖ Preparation for Competitive Exams by Prof. Sunil Khokhar and Prof. Kenal Tandel

Prof. Sunil Khokhar and Prof. Kenal Tandel, Faculties of Automobile Engineering Department had taken an expert hands on session “Preparation for Competitive Exams” for the final and Pre-final year Automobile students on 10th January, 2019

Prof. Kenal Tandel started the session with the GATE preparation and how to crack it with some easy practices. Also he took an interactive session with students about their fundamental knowledge of different subjects of Automobile-Mechanical Engineering.

Prof. Sunil Khokhar has continued the hands on session with “Reasoning and Aptitude”. Students enthusiastically attended the session and learnt various techniques to solve the problem.



❖ Expert session on “Joys of being a Production Engineer”



Mechanical Engineering Department has arranged an expert talk on “Joys of being a Production Engineer” on 19th March 2019. The expert lecture has been delivered by Mr. Pralhad Dabholkar, a double Graduate from IIT Mumbai in Mechanical and Aeronautical Engineering, MD of Tucson Hydrocontrols. He has explained briefly about basics of production engineering, skill required for production Engineer, Hydraulic and manufacturing

systems, particularly cutting and abrasive machining process. He also covered importance of financial knowledge, Human resource management and critical thinking as being a production engineer. At the end he explained constant learning and improvement with existing technology is a key aspect for Production Engineer. Around 85 students of final year and faculty member attended the expert lecture. The session is important for the students related to final year subject Product development and value Engineering.

❖ “Expert Lecture on Air Pollution Monitoring As Per The Guidelines of GPCB”

Civil Engineering Department had arranged an expert lecture on 'Air Pollution Monitoring as per the Guidelines of GPCB' in Environment Engineering Field for 3rd year students on 29th August 2019. The expert lecture was delivered by Mr. Himanshu S. Desai who is working as Lecturer in Chemical Engineering department and Quality manager in Environment Audit Laboratory at N.



G. Patel Polytechnic College, Bardoli, Navsari. The session was organized by Dr. Bhavin G. Patel, Head of the Civil Engineering department and Assist. Prof. Hemina Patel.

❖ GATE Awareness Programme

Graduate Aptitude Test in Engineering (GATE) is competitive exam to pursue higher education in IITs, NITs and other reputed Universities/Institutes. GATE is also career making exam to get job in PSUs like ONGC, IOC, BHEL and many more. With the Support of I.C.E. (GATE Institute), Training and placement cell of Computer Engineering Department organized seminar titled "GATE Awareness Programme" on 29th August, 2019.

In this seminar, students were informed to diverse benefits for applying GATE examination. In this seminar, Mr. Jatin Patel from I.C.E. informed about various choices available for the students after earning good marks in the GATE examination for their bright future. In addition, several scholarship provided by Government for the studying in M. Tech. and Ph. D. were informed. About 80 students of Computer Engineering Department have participated in the seminar.



❖ "CYBER SECURITY AWARENESS CAMPAIGN"



A one day seminar was organized by SSIP cell and T&P cell, Computer Engineering department on 28th August. Cyber Security is one of the burning issue today and to make students aware of it. There were 76 student participants attended this seminar. Mr Abhash Singh, Mr Vivek Kumar Singh , Mr Smit Patel from FUIAI Technologies, Vapi was invited expert speakers for the seminar. This seminar was focus on Cyber threats, Ethical hacking, how to be secured in the internet and startup in Cyber Security. The seminar was ended with full of Information and vision of being safe and secure in the virtual world.

❖ SESSIONS ON BASICS OF INTELLECTUAL PROPERTY RIGHTS



To fulfil GTU's target of organizing total 150 workshop on IPR as a part of celebrations of 150th Birth Anniversary of Mahatma Gandhiji.

Name of Speaker: Prof. Harshal G. Vashi, Assistant Professor. Applied Sciences & Humanities Department.

Name of program coordinators: 1) Dr. Rakesh J. Motiyani, Associate Professor & Head, Electrical Engineering Department,

2) Dr. Shailesh S. Patel, Professor and Head, Applied Sciences and Humanities Department,

Sr. No.	Name Institute where session was conducted	Date	Participants
1	N. G. Patel Polytechnic, Bardoli	15-11-2019	68
2	R. N. G. Patel Institute Of Technology, Bardoli	15-11-2019	117
3	Prime Group Of Institutions, Mangrol	22-11-2019	123
4	Pacific School Of Engineering, Palsana	25-11-2019	87
5	Shree N. L. Patel College Of Pharmacy, Umrakh	27-11-2019	81
6	GIDC Degree Engineering College, Navsari	28-11-2019	66

❖ PMKVY- CNC Programmer Course

With the aim to develop machine tool programmer for Navsari regions students on computer numerically controlled (CNC) machines using appropriate software, as per National Steering Committee approved procedures through AICTE, Mechanical Engineering Department of GIDC Degree Engineering College, conducted PMKVY CNC PROGRAMMER COURSE. Diploma passed out 25 student were enrolled and the course was conducted from January 2019 to June 2019 by the team of Prof. (Dr.) H. S. Patil (Coordinator), Prof.(Dr.) D. C. Patel (Coordinator), Asst. Prof. H. B. Patel (Co-mentor), Mr.Brijesh Patel (Lab. Asst.) Mr. Divyesh Patel (W/s Instructor), Mr.Bhavin Patel (Lab Attendant).The final examination of the course has been conducted by PMKVY Assessor from Gorakhpur, Uttar Pradesh, on dated 17/09/2019 between 9.00 am to 6.30 pm.



❖ Inauguration of ISHRAE Student Chapter

Mechanical Department of GIDC Degree Engineering College has continuously conducted various programs for the betterment of student's carrier. In that direction on dated 21-09-2019, mechanical department inaugurated and started "STUDENT ISHRAE CHAPTER" sponsored by ISHRAE Surat Chapter. Mr. Bharat Varia(President-ISHRAE Surat Chapter, PaurushGhadiali (ISHRAE member) Dr.N.D.Sharma (Principal), Dr.H.S.Patil (Head), Dr.D.C.Patel (W/S In charge) and Prof. D.R.Tandel (Faculty Coordinator ISHRAE chapter) graced the inaugural session by their presence. About 100 students participated in the inauguration program. At present ISHRAE student chapter has 32 student members. On the day of inauguration ISHRAE president Surat Chapter elected Mr. Sunny Sing has a President, MrMehul Tandel as a Treasurer and Mr.Vishesh Tandel as a Secretary for current year ISHRAE student Chapter and taken the oath from elected members to work for the benefits of students.



❖ Mechanical Engineering Department has Organized Engineeria'19 An International Engineering Quiz Competition

Mechanical Engineering department has organized ENGINEERIA'19- AN INTERNATIONAL ENGINEERING QUIZ COMPETITION during September 2019, which was supported by the CADD Centre Training Services Pvt. Ltd. The CADD centre issued certificate of achievement to Nityang N. Patel, Abrar G. Khalifa, Naik Darsh J., Anuj S. Patel, Tandel Prince Dipakbhai, Mistry Harsh K., Tandel Bhavik D., Tandel Rutvik B., Sailor Nikhil Gaurisankar, Vishal M. Kansara., Patel Riken G., Karan H. Patel, Keval H. Patel, Abhishek J. Pandey, Halpati Piyush J. for their good performance.



❖ Entrepreneurship Development Program

Entrepreneurship Development Program (Modulr-II) organized and hosted by GIDC Degree Engineering College, Abrama, Navsari sponsored by The Center for Entrepreneurship Development, Gandhinagar

Duration: 4th-27th September, 2019

Conveners: 1) Prof. Harshal G. Vashi, Assistant Professor & ED Cell In-charge

2) Dr. Rakesh J. Motiyani, Associate Professor & Head, Electrical Dept.

Co-ordinators: 1) Prof. Dhruvang Gayakwad, Assistant Professor, Electrical Dept.

2) Prof. Ketan Lad, Assistant Professor, Electrical Dept.

3) Prof. Harsh Naik, Assistant Professor, Mechanical Dept.

4) Prof. Dhaval Chaudhari, Assistant Professor, Mechanical Dept.

No. of participants: 28 final year students of Electrical & Mechanical Engineering



❖ Webinar Session on “Construction Practices”

Dr. Bhavin G. Patel & Prof. Tilva Vikunj K. had organized a Webinar Session “Construction Practices” with jointly effort of UltraTech Cement Ltd, on 12th February 2019 from 3.00 pm to 5.00 pm for final year students and other surrounding engineers.

❖ TCS-iON Webinar Series

TCS iON Digital Learning Hub is an Online Learning platform offering Courses, Assessments, Communities and Events. It is an ideal platform for an individual who wishes to pursue education on a self-learning pace. It enables educators and trainers to deliver self-paced and blended learning which enables an individual to learn at any place and any time.

The session was delivered by Yashwant Kanetkar. Yashwant Kanetkar is an Indian computer science author, known for his books on programming languages. He has authored several books on topics such as C, C++, VC++, C#, .NET, Java, DirectX and COM programming.

Computer Engineering Department has arranged two online webinars on “Understanding Pointers in C” and “Multithreading in Java” which was organized by TCS-iON.

Multithreading in Java

In this session thorough knowledge of Threading were given by expert. He gave detail explanation about the usage of threading in java programming languages with suitable examples. He demonstrates code how we can use Thread class and Runnable Interface to accomplish threading in JAVA. Students of 6th semester have got knowledge of threading through this webinar.

Understanding Pointers in C

In this session thorough knowledge of pointers were given by expert. He gave detail explanation the usage of pointers in programming languages with suitable examples. Students of 2nd semester have got knowledge of pointers through this webinar.

❖ Government Polytechnic, Navsari's Student at GDEC for Practical Performance

Government Polytechnic, Navsari has visited Electrical Engineering Department of GIDC Degree Engineering College for Practical Performance of Switch Gear and Protection subject on 3rd March, 2019. This Practical lab session was conducted by Prof. Ankur P Desai, Prof. Bhavesh Patel and Prof. Dhruvang Gayakwad.

Government Polytechnic, Navsari has visited Electrical Engineering Department of GIDC Degree Engineering College for Practical Performance of subjects Electrical Machines and Digital Electronics on 20th March, 2019. These Practical lab sessions was conducted by Prof. Bhavesh Patel, Prof. Rohit Damor, Prof. Dharmishtha T. Patel, Kamlesh Sonwane, Apeksha Desai and Chetna Patel.

❖ Seminar arranged by Mechanical Engineering Department

• Mechanical Engineering Department, arranged a seminar on- Esprit CAD- CAM Software for final year students on dated 19-07-2019.

• On 07/09/2019, an interactive session was planned by mechanical department for final year students on Employ-ability Skill to bridge the gap between the academia and industry



Seminars/Workshop Attended/Participated

Faculty Name	Event Name	Organized By	Duration
Automobile Engineering Department			
Prof. Toral Patel, Prof. Ankit Patel, Prof. Sunil Khokhar, Prof. Mayur Jalanapurkar Prof. Kenal Tandel	Energy Conservation Awareness conducted by GEDA	GDEC Navsari	23rd SEPT 2019
Prof. Mayur Jalanapurkar	Applications of Radioisotopes and Radiation Technology in Agriculture, Healthcare & Industries	Saffrony Institute of Technology (SIT), Mehsana	15th - 16th Feb. 2019
Civil Engineering Department			
Prof. Mihir Naik	Hands on Practice of Construction Management using Primavera P6 Software & Latest Immersive Technology	Pacific School of Engineering, Kadodara	1st and 2nd February 2019
Computer Engineering Department			
Prof. Hetal M. Patel and Prof. Bhumika H. Patel	Artificial Intelligence and Python Programming	GUJCOST sponsored, Dr. Jivraj Mehta Institute Of Technology, Anand	21st & 22nd February 2019
Prof. Kaushal T. Kevadia and Prof. Mihir A. Mishra	Artificial Intelligence and Deep learning	Sarvajani College of Engineering and Technology, Surat	4th-6th January, 2019
Hetal Patel, Bhumika Patel & Vibhuti Patel	Python for Data Science	Sarvajani College of Engineering and Technology, Surat	28th to 30th June, 2019
Prof. Kushal Patel	Energy Conservation Awareness	Electrical Engineering Department, GDEC and sponsored by Gujarat Energy Development Agency (GEDA)	23th September
Electrical Engineering Department			
Prof. Bhavesh S. Patel, Prof. Bhavin S. Trivedi	System Wide Impacts of Renewable Energy Integration to Energy Network	Charotar University of Science and Technology, Changa	30th March, 2019
Prof. Ankur Desai	Application of MATLAB Software in other Engineering Disciplines	M & B Patel Institute of Technology, Anand	18th and 19th June, 2019
Prof. Jay Desai	Application of Radioisotopes and Radiation Technology in Agriculture, Healthcare& industries	Saffron Institute of Technology (SIT), Mehsana and National Association for Application of Radioisotopes & Radiation in Industry (NAARRI)	15th and 16th February, 2019
Dr. R. J. Motiyani	Outcome Based Education & NBA Accreditation	S N Patel Institute of Technology & Res.	3rd and 4th April, 2019
Mechanical Engineering Department			
Prof. B S Naik	Seminar on "Application of Radioisotopes and radiation technology in agriculture , Healthcare and Industries"	Saffrony Institute & Technology, Mehana	15th to 16th February



Seminars/Workshop Attended/Participated

Faculty Name	Event Name	Organized By	Duration
Prof. Mayur R. Patel	4 week online study course on "Introduction to Computer Numerical Control"	Tenaris University	June-July
Prof. B S Naik Prof. H R Naik Prof. D R Tandel	FDP on "Entrepreneurship"	GDEC, Navsari	29th June 2019
Prof. Hitesh C Rana	Induction Programme	SNPIT, Umarakh	7th to 9th June 2019
Prof. D.R. Tandel Prof. M.R. Patel Prof. B.H. Gajera Prof. Hitesh C Rana	STTP on "An Application of PLC & SCADA in Industrial Automation"	GDEC, Navsari	15th to 19th July 2019
Prof. Hitesh C. Rana	1 day workshop on "Preparation of village development plan"	Unnat Bharat Abhiyan at IIT Gandhinagar	7th December 2019
Prof. Hitesh C. Rana	1 week STTP on "Design modeling and simulation on advanced composite structures using FEA software"	SVNIT Surat	9th to 13th December 2019
Prof. Hariketan B. Patel	FDP on "3D Printing and design"	SVNIT, Surat	30th Dec 2019 to 3 January ,2020





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STTPs & FDP Attended/Participated

Faculty Name	Event Name	Organized By	Duration
Automobile Engineering Department			
Prof. Mayur J. Jalanapurkar	Additive Manufacturing - Theory and Applications	Department of Mechanical Engineering, S. V. National Institute of Technology, Surat	10th - 14th June 2019
Prof. Ashish Jain	Student Induction Program for AICTE approved institutions	VGEC, Gandhinagar	29th – 31st Jan. 2019
Prof. Toral Patel	Student Innovation and Start-up ecosystem development at academia	Entrepreneurship Development Institute of India (EDII), Gandhinagar	25th Feb. – 01st March 2019
Civil Engineering Department			
Prof. Rajan Lad	induction training	GTU Chandkheda	25th-29th March, 2019
Prof. Nilesh Parmar, Prof. Vikunj Tilva	Research Methodology and Technical Writing	SVNIT, Surat	16th to 20th September, 2019
Dr. Bhavin G. Patel, Prof. Vikunj Tilva, Prof. Nilesh Parmar, Prof. Sunil Jaganiya, Prof. Pritesh R. Rathod	Recent Advances in Structural Engineering (RASE-2019)	SVNIT, Surat	18th to 22nd, September, 2019
Prof. Krutika Chauhan	Research Methodology and Soft Computing Techniques for Civil Engineering	C. K. Pithawala college of Engineering and Technology, Surat	2nd December to 7th December, 2019
Other Event Attended			
Prof. Nilesh Parmar	ICCR, Distribution of final year student certification	Governor house, Gandhinagar	20th February
Dr. Neeraj D. Sharma, Prof. Nilesh R. Parmar, Prof. Dhaval Patel	UBA meeting for Village Development	IIT Gandhinager	16th may 2019
Dr. Neeraj D. Sharma, Prof. Nilesh R. Parmar	SSIP meeting	SSIP	Ahmadabad
Dr. Bhavin G. Patel, Prof. Nilesh R. Parmar	Carrier assessment test for education in engineering	-	8th June 2019
Computer Engineering Department			
Prof. Archana Nayak, Prof. Kaushik Patel	Deep Vision: Deep learning for Visual Computing	AICTE Sponsored CSPIT, Changa	18-29 November 2019
Prof. Bhumika Patel and Prof. Vibhuti Patel	Cloud Computing with Amazon Web Services(AWS)	BVM Engineering College, Vallabh Vidyanagar, Anand	25-29 November 2019
Prof. Kushal Patel	Induction Training for the Faculty	GTU, Gandhinagar	25th to 29th March, 2019



STTPs & FDP Attended/Participated

Faculty Name	Event Name	Organized By	Duration
Online Course Attended			
Prof. Archana Nayak	Smart Transportation for Smart City	Graduate School of Smart Cities Development, GTU	January to July, 2019
Prof. Kushal Patel	Cyber Security course for Beginners-Level 01	Fourthwall Technologies and Udemey	October, 2019
Prof. Kushal Patel	SEO Tutorial for Beginners	Daragh Walsh and Udemey	December, 2019
Electrical Engineering Department			
Prof. Ankur P Desai, Prof. Jay R. Desai, Prof. Dharmishtha Patel	Designing embedded systems enhanced with IOT Using Micropython	GIDC Degree Engineering College, Abrama	8-12 January 2019
Prof. Ankur P. Desai	Student Induction Program for AICTE approved institutions	Vishwakarma Government Engineering College, Chandkheda, Ahmedabad	29th to 31st January, 2019
Dr. R. J. Motiyani Prof. Bhavesh S. Patel	Renewable Integration with Grid, Power Quality Scenario and Active Distribution Networks	C.K. Pithawalla College Surat	6th- 11th May-2019
Prof. Jay R. Desai	Faculty Development Program	SNPIT & RC , Umrah, Bardoli	7th to 9th June, 2019
Prof. Ketan K. Lad	Deep Learning and Application	Computer Department, SVNIT, Surat	18th to 22nd June- 2019
Prof. Ankur P Desai	Advanced Engineering Optimization through Intelligent Techniques	SVNIT, Surat	25th to 29th November, 2019
Webinar Attended			
Prof. Ankur P. Desai	Teaching and Learning with MATLAB and Simulink	matlab webinar	21st February, 2019
ASH Department			
Prof. Harshal G. Vashi	Reserch Methodology & Technical Writing	S.V.N.I.T., Surat	16th to 20th September, 2019
Online Course attended			
Prof. Harshal G. Vashi	Accreditation and Outcome based Learning	Prof. S K. Das Mandal & Prof. Anup Kumar Ray, IIT Kharagpur	-
Prof. Harshal G. Vashi	Patent Search for Engineers and Lawyers	Dr. M.Padmavati, IIT Kharagpur and Advocate S. Matilal, High Court at Calcutta and Supreme Court of India	-
Prof. Harshal G. Vashi	Marketing Management-I	Prof. Jayanta Chatterjee, IIT Kanpur	-



Research Publication in Conferences/journals

International/National Conferences/journals

Faculty Name	Title of Paper	Journal/Conference	Month & Year
ASH Engineering Department			
Prof. Nisha S. Parekh	Rejecting Hegemony: A Study of Namita Gokhale's Paro: Dream of Passion	Langlit: An International Peer-reviewed Open Access Journal. Vol-5, Issue-3, ISSN: 2349-5189	February, 2019
Prof. Megha K. Tailor, Dr. Shailesh S. Patel	Instability Phenomenon Arising in Homogeneous Porous Media by Crank-Nicolson Finite Difference Method	Journal of Emerging Technologies and Innovative Research	February, 2019
Prof. Harshal G. Vashi	A Study on Perception of Degree Engineering Students of Navsari District Regarding their Employability	Procedings of Multi-Disciplinary International Conference GTUICON-2019 organized by Gujarat Technological University, Ahmedabad ISBN:978-93-5351-069-5	February, 2019
Prof. Harshal G. Vashi	Developing an Innovative Approach for Enhancing Employability Skills of Civil Engineers	Procedings of 1st National Conference on "Emerging Research and Innovations in Civil Engineering organized by Dr. S & S. S. Ghandhy College of Engineering & Technology, Surat ISBN: 978-93-53463-53-3	February, 2019
Prof. Harshal G. Vashi	Lean 4.0: A strategic combination of lean management and industry 4.0		March, 2019
Mechanical Engineering Department			
Dr. H S Patil, Dr. D C Patel	'Characterizations of TIG welded joints of unalloyed commercially pure Titanium Gr-2 for weld process parameters"	Journal Fratturaed Integrità Strutturale (Fracture and Structural Integrity), Vol.12 No.48, 377-384, ISSN 1971-8993	2019
Dr. H S Patil, Dr. D C Patel	"Experimental Analysis of Oil Film Pressure and Temperature on EN31 Alloy Steel Journal Bearing,"	American Journal of Materials Engineering and Technology, Vol. 7, No. 1, 7-11, ISSN:2333-8911	2019
Dr. D C Patel	"A Review of Progressive damage analysis and fatigue life prediction for degraded E glass FRP material."	International Journal of Technical Innovation (IJTIMES), ISSN : 2455-2585.	December, 2019
D. R. Tandel M. R. Patel H. B. Patel	Development of Solar Heating System by Use of Fresnel Lens for Stirling Engine	IJSRD - International Journal for Scientific Research & Development, Vol. 7, Issue 03, 2019 , ISSN (online): 2321-0613	June- July, 2019
M. R. Patel H. B. Patel D. R. Tandel	"Design and Development of Rice Threshing and Winnowing Machine"	Journal for Research , Volume 05 , Issue 3, May 2019ISSN: 2395-7549	May, 2019
Daksh R Tandel	"Development And Testing of Evacuated Box Solar Collector"	"Journal of Mechanical Engineering" (Society of Manufacturing Engineers) with ISSN number 0973-6867.	14th December 2019
Prof. Harsh R. Naik	"Implementation of Lean Six Sigma Methodology to Healthcare Institution"	International Journal for Scientific Research & Development Vol. 7, Issue 02, 2019 ISSN (online): 2321-0613.	December, 2019
Hitesh Rana, Bharat Gajera	"Design Improvements of Theo Janson Mechanism"	International Journal for Scientific Research & Development, ISSN: 2321-0613	June, 2019

Research Publication in Conferences/journals

International/National Conferences/journals

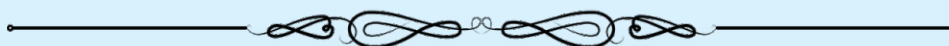
Faculty Name	Title of Paper	Journal/Conference	Month & Year
Prof. Harsh R. Naik	"Incorporating a 6th 'S' – Safety in 5S Lean Methodology"	International Journal for Scientific Research & Development Vol. 6, Issue 11, 2019 ISSN (online): 2321-0613.	December, 2019
Krunal A. Hathiwala	"Experimental Study of Darrius Wind Turbine"	IJITME ISSN NO. 2349-2865	April, 2019
Automobile Engineering Department			
Prof. Ashish Jain	Development of Solar Heating System by Use of Fresnel Lens for Stirling Engine	IJSRD - International Journal for Scientific Research & Development Volume 7, Issue 03, Pg. no. 1321-1323 in	May, 2019
Prof. Ashish Jain	Development and Testing of Evacuated Box Solar Collector	National Symposium on "Cleaner Production & Green Technology (CGPT -2019)"	December, 2019
Computer Engineering Department			
Prof. Kushal Patel	Survey on online ordinary ticket booking in Indian Railways	International Journal of Scientific and Engineering Research, ISSN-2229-5518, Vol.10, Issue-4	April, 2019
Civil Engineering Department			
Dr. Bhavin G. Patel	Flood Modelling of River Ambica Using HEC-RAS	journal of emerging technologies and innovative research, Volume 6, Issue 4, ISSN Number 2349- 5162	April, 2019
Prof. Rajan J. Lad	Traffic Congestion Overcome by Rotary Design	International research journal of engineering and technology (IRJET), Volume 6, Issue 4, Impact Factor 7.211	April, 2019
Prof. Pritesh R. Rathod	Innovation In Concrete by Effective Utilization of by-Product In Concrete	International Journal of Innovative Knowledge Concepts, Vol. 6, Special Issue 2, ISSN: 2454-2415	December, 2018
Prof. Hemina Z. Patel	Evaluation of Fertilizers and Pesticides in Environmental Areas	International Journal of Innovative Knowledge Concepts, Vol. 6, Special Issue 2, ISSN: 2454-2415	December, 2018
Prof. Krutika A. Chauhan	Experimental Study on Paver Blocks Using Waste Tyres	International research journal of engineering and technology (IRJET), Volume - 6, Issue - 6, Impact factor 7.211, e-ISSN: 2395-0056, p-ISSN: 2395-0072	June, 2019
Prof. Hemina Patel	Sustainable Remedy of Indoor Air Pollution Control by Plants	4th INDIAN INTERNATIONAL CONFERENCE ON AIR QUALITY MANAGEMENT (IIAQM-2019) jointly organized by IIT Madras, IIT Bombay and University of North Texas USA	December, 2019
Electrical Engineering Department			
Prof. Dhaval K. Patel, Prof. Ketan K. Lad, Prof. Rohit B. Damor, Prof. Bhavesh S. Patel	"WIRELESS FIRE FIGHTING ROBO"	International Journal of Scientific Research and Review, Volume 07, Issue 05	May, 2019



Research Publication in Conferences/journals

International/National Conferences/journals

Faculty Name	Title of Paper	Journal/Conference	Month & Year
Prof. Ankur Desai, Dr. R J Motiyani	Speed Control of Three Phase Induction Motor using Two Level Inverter with SVPWM Technique	International Journal for Scientific Research & Development, Volume 6, Issue 11	Jan, 2019
Prof. H G Vashi & Dr. R J Motiyani	Lean 4.0: A Strategic Combination of Lean Management and Industry 4.0	R N G Patel Institute of Technology, Bardoli	8th -9th March, 2019
Prof. Dhruvang Gayakwad, Prof. Jay R. Desai	Analysis of Full Bridge Rectifier with Filter Capacitor	International Journal for Scientific Research and Development (IJSRD).	Nov, 2019
Prof. Ketan K. Lad, Prof. Dhaval K. Patel, Prof. Bhavesh S. Patel, Prof. Rohit B. Damor	Surveillance system using Roboguard	INTERNATIONAL CONFERENCE ON Recent Development in Engineering Sciences, Humanities and Management	January-2020



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❖ Visit at Vibrant Gujarat Summit-2019

Prof. Nilesh R. Parmar from Civil Engineering Department, Prof. Jay R. Desai Prof. Ketan K. Lad and Khyati K. Naik from Electrical Engineering Department have visited 'Vibrant Gujarat Summit-2019' at Mahatma Gandhi Mandir, Gandhinagar on 19th January 2019.



Visit at 'National Salt Satyagraha Memorial', Dandi

To get knowledge and to give an insight about the memorial encapsulates the ideals of Mahatma Gandhi- Agra for Swadeshi, Swatcha and Satya, students and faculties of GIDC Degree Engineering College, Navsari visited to 'National Salt Satyagraha Memorial', Dandi, on 2nd February, 2019.

The 'National Salt Satyagraha Memorial', Dandi, Gujarat, India is conceived as an experiential journey recreating the spirit and the energy of the 1930 Dandi March led by Mahatma Gandhi and 80 of his fellow Satyagrahis, taking the visitors to the Monument step by-step in order to visualise and understand the history of the historic Salt March and the methodology of Satyagraha, which finally led to India's Independence from the British colonial rule. This project, endorsed by the Ministry of Culture, Government of India is advised by a High Level Dandi Memorial Committee (HLDMC) with IIT Bombay as a Design Coordination Agency.

The indigenous technology used at the National Salt Satyagraha Memorial, Dandi, Gujarat is researched and developed by different departments of IIT Bombay, the design coordination agency. They worked together internally and with each other to design and coordinate the execution of the technologies used in the memorial complex. It makes this a first of its kind project for the premier institute. Different technology components include:

The monument is a 40 metre tall steel A-frame with a 2 and half tonne weighing glass crystal placed at the top. The coastal topography of the area meant that its structure had to be wind tunnel tested. The structure was also welded with non-corrosive material like duplex steel to ensure its durability. Another unique feature is the laser lights which rises up and illuminates the glass crystal at night to make it a visually enhancing experience.

Solar Trees

To reflect the ethos of self-sufficiency imbibed by Mahatma Gandhi, 40 Solar Trees were designed, developed and installed. It makes this memorial a net zero-energy project where all the energy required is produced in the memorial itself. It produces energy during the day and exports the extra energy to the electricity grid. During the night, it imports the energy required back from the grid. This system makes ensures the availability of electricity without the need to install and maintain expensive batteries.

Artificial Lake

An artificial lake was created to symbolise the sea shore aspect of the Salt Satyagraha. It is a non-permeable, geo textile based lake which is sealed from the bottom and top to prevent salt infiltration. Locally available non-corrosive materials were sourced to construct the artificial lake at the National Salt Satyagraha Memorial. The lake is filled with harvested rain water which is then treated to produce sparkling clear.

Solar Salt-Making Pans

Solar Salt-Making Pans will be installed at the Memorial Complex to allow visitors to personally experience salt-making and to make a pinch of salt to be taken away as a memory of the visit to the Memorial. The activity helps to understand Gandhi's call to everyone to make their own salt. The facility enables visitors to make a pinch of salt, that can be taken away as a memory of the visit to the Memorial. The activity celebrates the strategic brilliance of the Mahatma, who used the powerful metaphor of salt to lead use towards independence.

Civil Structures

Based on the soil data and topography, the ground level raised by two meters and the site made suitable for statue, bridge and other structures. The civil structures also warranted the use of non-corrosive material and wind tunnel testing. Even minute aspects like selection of rocks for the landscape was handled carefully by the Design Team.

E-Guided Tour

IIT Bombay is working closely with experts to develop a 60 minute immersive audio tour so that the visual experience of 24 Mural Narratives is enhanced and the visitors of National Salt Satyagraha Memorial have a more holistic experience of the history of the event. At the Dandi Memorial Complex, smart phones are converted into an in-destination personal tour guide enabled by the use of an interactive mobile application.

It was a great learning experience for students of all branch of engineering. This monument will keep the fire burning in the heart of every Indian so that we shall not forget the struggles faced by our freedom fighters to achieve the valuable independence of our country.

The visit was co-ordinated by Prof Archana Nayak, Prof Toral Patel & team.



Faculty Achievement

❖ Awarded Ph.D. in English

- A Ph.D. thesis entitle “New Woman in the Novels of Namita Gokhale: A Critical Study” by Dr. Nisha S. Parekh was accepted and awarded a degree of Doctor of Philosophy in English by Gujarat University, Ahmedabad.

❖ Book Publication

- Prof.(Dr.) H. S. Patil has published a book on Fundamental of Machine Design (ISBN No-978-93-89835-92-2) for Gujarat Technological University with Tech-Neo Publication Pune in January-2020.
- Dr. Shailesh S. Patel has Published following books of Mathematics under Atul Prakashan:
 - Applied Mathematics for Electrical Engineering
 - Probability and Statistics for Computer Engineering
 - Complex Variables and Partial Differential Equations for Automobile and Mechanical Engineering
- Prof.(Dr.) H. S. Patil has published a book on Mechanical Vibration (ISBN No-978-93-89460-37-7) for Mumbai University with Tech-Neo Publication Pune in October_2019.
- Prof.(Dr.) H. S. Patil has published a book with title “Welds characterization of Al alloy 6 xxx-7xxx for FSW and TIG welding” under Lambert Academic Publishing, ISBN No. 978-613-4-97393-9.
- Dr. D. C. Patel has published a book with title “Performance Analysis and enhancement of TFO machine” under Lambert Academic Publishing, ISBN No. 978-613-8-00532-2.
- Dr. D. C. Patel has published a book with title “Introduction to Practical PLC Programming” under Lambert Academic Publishing, ISBN No. 978-613-8-23842-3.
- Prof. Ashish Jain & Prof. Mayur Jalanapurkar had published their 1st book on “Special Purpose Vehicles” (2180211) ISBN No.: 978-93-85173-70-7 with ATUL Prakashan, Ahmedabad for B.E. - Automobile, Semester VIII students as per the Revised Syllabus of Gujarat Technological University in January 2019

❖ Expert Lecture Delivered

- Prof. (Dr.) H. S. Patil, Prof. (Dr.) D. C. Patel and Prof. B. S. Naik., Prof. M. R. Patel delivered lecture session on "Modelling of Mechanical Systems Using Solidworks Software" to the second & third year mechanical engineering students of Government Polytechnic Navsari (18th January, 2019), Valsad (28th January, 2019), and Waghai (1st February, 2019).
- Prof. (Dr.) D. C. Patel and Prof. T.N. Patel delivered session on "CAD G & M Code Part Programming" at Jayvantrai Harrai Desai Polytechnic, Palsana- on 8th February, 2019 to the third-year mechanical students.
- Dr. R J Motiyani was invited as an eminent guest speaker by Prime Institute of Engineering & Technology on the occasion of Technical Festival, “PrathamaTech-2K19” on 28th March 2019.
- Prof. Pritesh R. Rathod had delivered expert lecture on “Concrete Mix Design as per Revised Code IS 10262-2019” at Government polytechnic valsad on 20th August.
- Prof. Harshal G. Vashi had delivered an expert session on “Start Up and Entrepreneurship at Pacific School of Engineering, Palsana on 26th August, 2019.
- Dr. R J Motiyani has conducted a sensitizing session on “Student Startups & Innovation Policy and Entrepreneurship” on 26th August for the 4th year students at Pacific School of Engineering, Palsana, Surat.
- Dr. R J Motiyani was invited as an eminent expert at Government Engineering College, Valsad on 13th September for the scrutiny of proposed projects seeking for financial support under Student Startups & Innovation Policy (SSIP).
- Dr. R J Motiyani was invited as an eminent expert at RNGPIT, Bardoli on the occasion of Technical Festival Vishvesmruti-2019 held on 16th September.
- Dr. Bhavin G. Patel was invited as an eminent Expert and Judge for the Paper Presentation of the State Level Inter-collegiate Techfest VISVESMRUTI-2019 at R.N.G. Patel Institute of Technology, Bardoli during 16th September, 2019.
- “Gate Awareness Programme” for the 3rd and 4th year students was conducted by Prof. Kenal Tandel during their Library sessions.



Faculty Achievement

- Dr. Neeraj D. Sharma (Principal GDEC) has Received Fellow Membership (FIE) of Institution of Engineers (IE).
- Dr. Neeraj D. Sharma (Principal GDEC) has received certification of Chartered Engineer from Institution of Engineers (IE).
- Dr. Neeraj D. Sharma (Principal GDEC) has reviewed as reviewer committee for the Vision- Mission statement of UG programme of Civil Engineering Department Course, at Dr. S & S Gandhi Government Engineering College Surat.
- Dr. Neeraj D. Sharma (Principal GDEC) has Contributed a chapter "Amidst the Governance Challenges in Environmental Management and sustainable Urbanization in Surat" in the book of "Smart Environment for Smart Cities", Springer Publication, 2019.
- Prof. Ashish Jain joined Tribology Society of India (TSI) (An Affiliation with International Tribology Council, U.K.) as a Life Member (LM#5916).
- Prof.(Dr.) H. S. Patil is acting as an Editorial Advisory Board Member of Mechanical Engineering in Cambridge Scholars Publishing Limited, United Kingdom.
- Dr. D. C. Patel has reviewed as reviewer committee for the Vision- Mission statement of Mechanical Engineering Department Course, at Government Polytechnic, Navsari.

❖ Invited as a Jury Member

- Prof. Harshal G. Vashi has been invited as a Judge in Technokruti-2019A Techfest organized by S.N.P.I.T., Umrakh, Bardoli.
- Dr. R J Motiyani was invited by GTU Innovation & Startup Center, Surat as a Jury member for "SSIP IP Screening" on 28th February 2019 for analyzing the best SSIP IP Patent Support Application from Gujarat.
- Dr. R J Motiyani was invited by Government Engineering College, Valsad as a member of Jury for the scrutiny of best project on the occasion of "Project Fair- 2019" held on 16th March 2019.
- Prof. Kaushik S. Patel has been invited as a Judge in Student's Project Fair on 28th March 2019 at J. H. Desai Polytechnic College, Palsana.
- Dr. Shailesh S. Patel and Prof. Harsha G. Vashi had served as jury member in Sciences fair organized by Kalpana Chawla Sankul- 2 at I. C. Desai High school, Talavchora on 28th August, 2019.
- Dr. R J Motiyani has served as a Jury member at "Science Fair-2019-20" held at Prataap High School, Vandsa sponsored by GCERT, Gandhinagar and District Education & Training Centre, Navsari on 26th September, 2019.
- Dr. Shailesh S. Patel had served as jury member in Inspire Award Competition and Demonstration organised by District Institute of Education and Training on 20th December, 2019.

❖ Pre-Synopsis Open Seminar

- Prof. Mansi Desai and Prof. Megha Tailor have successfully defended pre-synopsis open seminar for Ph.D in mathematics under the valuable guidance of Dr. Shailesh S. Patel.

❖ Student Achievements ❖



GIDC Degree Engineering College Chess team has participated in the GTU organized Sport Festival- SPIRIT. Team of Sunny Singh, Mehul Tandel, Marvin Tandel, Vaksha Tandel qualified as Runner's up in tournament.

- Nityang N. Patel, Abrar G. Khalifa, Naik Darsh J., Anuj S. Patel, Tandel Prince Dipakbhai, Mistry Harsh K., Tandel Bhavik D., Tandel Rutvik B., Sailor Nikhil Gaurisankar, Vishal M. Kansara., Patel Riken G., Karan H. Patel, Keval H. Patel, Abhishek J. Pandey, Halpati Piyush J. got participation certificate from CADD Centre Training Services Pvt. Ltd. for participate in ENGINEERIA'19- AN INTERNATIONAL ENGINEERING QUIZ COMPETITION.
- Abrar Belim has been selected in Volleyball team of Gujarat Technology University for participating in the all India Inter University.
- Pandey Abhishek Jayantilal and Patel Sachin Hiteshbhai secured First position in “Mech Quiz” event held in national leve; techfest “Tekxianze 2k19 at S. S. Agarwal Institute of Engineering and Technology, Navsari on 26th and 27th February 2019.
- Mistry Shubham, Bhoga Vyankatesh of Electrical Department secure first position in Blink Brain event in Uttkranti-2019 organized by MGITERC, Navsari.

✦ Student Achievements

2nd Runner's Up at Inter College Competition



Navsari Management Association (NMA) Organized an Inter College Competition titled with 'What an Idea!' on 9th March, 2019 at Anavil Sanskar Trust, Navsari. There were multiple teams from and across Navsari regions took an active participation in this competition. Two teams from GIDC Degree Engineering College, Abrama, one from Automobile Department (2nd year) and other from Computer Department (3rd year) has participated in this Competition.

Computer Engineering Department students Karan Katira, Patel Bhaumik and Soham Varia have secured 3rd Position in this competition. Team has represented an Innovative Idea on Smart Energy Meter which was based on Internet of Things (IoT) to provide effectiveness in energy billing and its usage consumption in detailed manner which could be helpful to both at Government side as well as Consumer side. Second team has represented an Innovative idea on Smart Dustbin.

Gujarat Industrial Hackathon-2019

Gujarat Knowledge City (GKS) and Student Start-Up Innovation Policy (SSIP) education Department, Government of Gujarat organized Gujarat Industrial Hackathon for New India-2019. For this Hackathon, Regional Round was organized at four centres, IITRAM (Ahmedabad), BVM (Anand), Auro University(Surat), Marvadi University (Rajkot) during 19th – 22nd February, 2019.

3 Teams of Computer Engineering Department, GIDC Degree Engineering College, Abrama has been shortlisted after submission of idea solution on various problem statements and had participated in this Regional Round of Hackathon. Each team has developed prototype and Software/Hardware based solution on Problem Statement given by various Industry for Industrial Hackathon. 2 teams of college has shortlisted for the finale round and Represent College at PDPU, Gandhinagar. Details of 3 teams are as under:



Team ID	Problem Statement	Team Members	Team Mentor	Reginal Round Center
Tg000285	How to find your vehicle in night in a big parking lot	1.Yashwant Mali, 2.Dhanraj Yadav, 3.Neel Rajpurohit, 4.Neel Patel, 5.Dipal Patel, 6.Nishita Solanki, 7.Megha Mistry, 8.Abhi Patel	Prof. Tejas Patel	Auro University(Surat)
Tg000048	Fault indication and sensing (location)	1.Bhavin Parmar, 2.Viraj Kansara, 3.Mohit Desai, 4.Nisha Bhalodia, 5.Bhaumik Patel, 6.Khevna Patel 7.Rana Rinkal, 8.Karan Katira	Prof. Brijesh Patel	BVM (Anand)
Tg000232	Smart Parking Systems	1.Akshay Makwana, 2.Sanket Shah, 3.Zeel Godhani, 4.Khushi Patel 5.Rohan Nirmal, 6.Anjali Patel, 7.Devanshi Tandel	Prof. Kushal patel	BVM (Anand)

Industrial & Technical Visit

Name of Industry
Bhenkabhai Ice Factory Bilimora
Techno Gear Pvt. Ltd
Nuclear Power Plant, Kakrapar
Sumul Dairy, Surat
Laxmi Cine Magic-Navsari, Rotech Fans And Rolastar Pvt. Ltd. -Bilimora Gujarat
J K PAPER LTD At SONGADH
GSRTC - Central Workshop Naroda Ahmedabad
Swadesh Udyog, GIDC POR, Vadodara
Vital Cast, at POR GIDC Industrial Area, Raman Gamdi, Vadodara
Technical visit at Saputara, Gujarat
Technical visit at commercial building construction Navsari, Gujarat
Technical Visit at 'Construction site of School 2nd Slab-beams'
Irrigation Engineering Field at Navsari Agriculture University
Technical Visit at 'Automobile Workshop Construction Site'
Technical PT visit
Industrial Visit at BSNL, Surat (Regional Telecom Centre)
Industrial Visit at Compucom, Jaipur
Industrial Visit at BSNL, Surat (Regional Telecom Centre)
Industrial Visit at Gujarat Energy Transmission Corporation Limited (GETCO)
Industrial Visit at Electrical Research and Development Association (ERDA)
Industrial Visit at Western Region Load Dispatch Centre (WRLDC) of Power grid
Industrial Visit at Balaji Wafers PVT.LTD,Valsad
Industrial Visit at 'ELECTRIC LOCO SHED, Valsad
Industrial Visit at "Rotech Industrial Fans & Blowers,GIDC,Antaliya"
Industrial visit Adani Ports (SEZ),MUNDRA





❖ Sports and Cultural Event

GIDC Degree Engineering College celebrated 8th GDEC Annual Festival from 21st to 29th January 2019. The Sports- Maitry Olympiads 2019 was organized from 21st to 27th January 2019 and the Cultural festival was concluded by cultural event GUNJ-2019 on 29th January 2019.

In MAITRY OLYMPIADS 2019, most of the students from all departments have participated in various games like Cricket, Volleyball, Football, Kabaddi, Table tennis, Carom, Chess, Badminton, Kho-Kho, Tug of War, GDEC Strongestman and Running – 100m for both boys and girls, making all events successful with joy, enthusiasm and sportsmen-ship. The whole sport event was coordinated by Prof. Bhavin Patel, Prof. Brijesh Patel, Prof. Pritesh Rathod, Prof. Dhaval Patel, Prof. Daksh Tandel & Prof. Kenal Tandel with supports of faculty coordinators and student coordinators.



GIDC Degree Engineering College celebrated 7th GDEC Annual Festival from 21st to 29th January 2019. The Chief Guest of the function was Shri. Aniruddha Panchal, HEAD, Human Resource, Hubergroup India Pvt Ltd. Vapi. The Guest of Honour was Shri. N. R. Dave Employment Officer Navsari District CA. Vinodchandra G. Desai. Principal Dr. N. D. Sharma briefed everyone about the progress achieved by the institute in the past year. The dignitaries delivered their motivational words to encourage students to achieve their best in technical field. On the same day college annual magazine “Profusion-19” was released by the dignitaries. Prize distribution function was conducted for topper students who performed well during their academic year and also to the winners of all the sports events and cultural events to motivate them. Students have expressed great enthusiasm on cultural events and they explored themselves

beyond the classroom experience. This event provides a platform to the students for expressing their talents which are far apart from their studies. The students could express their talent in the fields of various cultural activities like music, dancing, drama, anchoring, etc. and the function concluded with endless fun, garba and DJ. The event was coordinated by Prof. Toral Patel, Prof. Harshal Vashi & Team.



Sports - Maitri Olympiads 2019

SR. NO.	EVENT	WINNER	RUNNER'S UP
1	CRICKET (BOYS)	3TH YEAR MECHANICAL- A	3TH YEAR MECHANICAL-B
		YASH VISHESH MEHUL JEET MARTEEN MARVIN ABHAY KENISH KEVAL JAY KEVIN AADARSH HILTAN FENIL SAGAR	DISHANT HEMIL VEDARTH YASH MALHAR PARIT KRUPANSHU JIGNESH PRANJAL AASIM AVI JIGAR DHAVAL SHUBHAM NISARG
		MAN OF THE MATCH - JAY MAN OF THE SERIES - JEET BEST BOWLER - MARTEEN BEST BATSMAN - JEET	
2	CRICKET (GIRLS)	COMPUTER DEPARTMENT	COMPUTER DEPARTMENT
		DHARVI NIDHI MAYURI DESAI NIDHI DIVYA JESHMIN DHARUVI RANI ASMITA DHARA ANJALI	PARNIKA VENSI DEVANSHI NISHITA SHIVAL TANVI VAISHNAVI NISHTHA DIMPAL SANA DRASHTI
3	FOOTBALL	MECHANICAL DEPARTMENT	ELECTRICAL DEPARTMENT
		MALHAR GILBERT CHINMAY PRANJAL JEET VEDARTH NISARG HENIL	MEET DHAVAL PRANAY TEJAN AALAP HARSH KUNJAN
		STRICKER - GHARANIYA KUNJAN MIDFIELDER - MIRZA AEJAZ DEFENDER - PATEL MEET	
4	GDEC STRONGEST MAN	TANDEL KEVAL (3RD YEAR MECHANICAL)	TANDEL VIRAJ (3RD YEAR MECHANICAL)
5	CHESS (BOYS)	SINGH SUNNY (3RD YEAR MECHANICAL)	PATEL HARSH (4TH YEAR MECHANICAL)
6	CHESS (GIRLS)	TANDEL VAKSHA G.(1ST YEAR COMPUTER)	GODHANI ZEEL(4TH YEAR COMPUTER)



Sports - Maitri Olympiads 2019

SR. NO.	EVENT	WINNER	RUNNER'S UP
7	VOLLYBALL (BOYS)	4TH YEAR MECHENICAL-B	3RD YEAR MECHANICAL-A
		DIVYANG ANKUR MANMIT JAY SAGAR CHIRAG URVESH AJAY JONI AVANISH	ABRAR AASIM ARIF HIMANSHU KRUPANSHU SATYAM KRUSHNA PARITK AVI PARAS URVA MIHIR ALAY
		BEST SMASHER-TANDEL ANKUR BEST LIFTER-KHAN AASIM BEST FIELDER-BELIM ABRAR	
8	VOLLYBALL (GIRLS)	COMPUTER DEPARTMENT	
		DHARVI NIDHI DIVYA JESHMIN ZEEL DHRUVI	
9	CARROM-DOUBLES (GIRLS)	RANA JASMIN S. PATEL DIPSHA V.	PATEL RIYA U. PATEL HARDIKA V.
10	CARROM-DOUBLES (BOYS)	NAIK HEMIL K. BADAT SOHEL Y.	PAREKH DEVANG V. PATEL AKASH N.
11	TABEL TENNIS-SINGLE (BOY)	TANDEL HARSHAL (1ST YEAR MECHANICAL)	BHATT JENIS(3RD YEAR AUTOMOBILE)
12	TABEL TENNIS-SINGLE (GIRLS)	THAKOR NISHTHA (1ST YEAR COMPUTER)	PRACHEE DESAI(4TH YEAR MECHANICAL)
13	BADMINTON (GIRLS)	RANA JESMIN (3RD YEAR COMPUTER)	RATHOD PARNIKA (2ND YEAR COMPUTER)
14	TUG OF WAR (GIRLS)	COMPUTER	COMPUTER
		JESHMIN DIVYA DHARVI DIPSHA MANSI NIDHI DEVANSHI NISHITA ANJALI DHRUVI	



Sports - Maitri Olympiads 2019

SR. NO.	EVENT	WINNER	RUNNER'S UP
15	KABADDI	CIVIL DEPARTMENT	COMPUTER DEPARTMENT
		PARTH OMKAR JENISH NISARG DEV RAJ SNEHAL VIT NILESH	RISHIKESH KENIL ANIKET PARTH AKSHAY AKASH DEVANG
		TOP RAIDER-CHAVDA VIT V. TOP DEFENDER-RAJHVANI NILESH K.	
16	100 M RUNNING (GIRL)	DIVYA PATEL(2ND YEAR ELECTRICAL)	YASHVI NAIK(1ST YEAR COMPUTER)
17	KHO-KHO (GIRLS)	COMPUTER DEPARTMENT	ELECTRICAL DEPARTMENT
		GUPTA RUCHI PARNIKA VAINAVI BHUMIKA SHIVANI RUCHI DIMPAL DEVANGI MEGHA PATEL BHUMIKA ASMITA RANI	PRACHI ZINAL SEJAL SWETA DIVYA BHAVINI HETAL KAJAL YOGESHWARI KAVITA DHRUVI GITA
18	Faculty Cricket	Harshal Vashi (ASH Department) Best Catch among faculty (Sponsored by Faculty)	



Sports - Maitri Olympiads 2019



Cultural - Gunj 2019



3D PRINTING: PRINT A NEW FUTURE WORLD

3D printing is a form of additive manufacturing technology where a three-dimensional object is created by laying down successive layers of material. It is also known as rapid prototyping, is a mechanized method whereby 3D objects are quickly made on a reasonably sized machine connected to a computer containing blueprints for the object. This revolutionary method for creating 3D models with the use of inkjet technology saves time and cost by eliminating the need to design; print and glue together separate model parts. Now, you can create a complete model in a single process using 3D printing. The basic principles include materials cartridges, flexibility of output, and translation of code into a visible pattern.

Types of 3D Printing:

- 1. Binder jetting:** Binder jetting is a rapid prototyping and 3D printing process in which a liquid binding agent is selectively deposited to join powder particles.
- 2. Directed energy deposition:** Directed energy deposition is a more complex printing process commonly used to repair or add additional material to existing components.
- 3. Materials extrusion:** Material extrusion-based 3D printing technology can be used to print multi-materials and multi-colour printing of plastics, food or living cells. Fused deposition modelling (FDM) is the first example of a material extrusion system.
- 4. Materials jetting:** In material jetting, a printhead dispenses droplets of a photosensitive material that solidifies, building a part layer-by-layer under ultraviolet (UV) light.
- 5. Powder bed fusion:** The powder bed fusion process includes the electron beam melting (EBM), selective laser sintering (SLS) and selective heat sintering (SHS) printing technique. This method uses either an electron beam or laser to melt or fuse the material powder together.
- 6. Sheet lamination:** sheet lamination is the 3D printing process in which sheet of materials are bond together to produce a part of object. The example of 3D printing technology that uses this process are laminated object manufacturing and ultrasound additive manufacturing.
- 7. Vat Photopolymerization:** The main 3D printing technique that frequently used is photopolymerization, which in general refers to the curing of photo-reactive polymers by using a laser, light or ultraviolet (UV).

Materials Used for 3D Printing Technology in Manufacturing Industry:

Like any manufacturing process, 3D printing needs high quality materials that meet consistent specifications to build consistent high-quality devices. To ensure this, procedures, requirements, and agreements of material controls are established between the suppliers, purchasers, and end-users of the material. *3D printing technology is capable to produce fully functional parts in a wide range of materials including ceramic, metallic, polymers and their combinations in form of hybrid, composites or functionally graded materials (FGMs)*

The Applications of 3D Printing in Manufacturing Technology:

3D printing technology has been applied in various and varied sectors. 3D printing technology increasingly used for the mass customization, production of any types of open source designs in the field of agriculture, in healthcare, automotive industry, locomotive industry and aviation industries.

Manufacturing Industry: Customised products are able to be manufactured as customers can edit the digital design file and send to the manufacturer



for productions. In aerospace and automotive industry 3D printing technology has potential to make lightweight parts, improved and complex geometries, which can reduce energy requirement and resources. It can lead to fuel savings because it can reduce the material used to produce aerospace's parts. In defence and navy industry the complex parts, difficult to cast can be easily 3D printed.

Medical, Healthcare and Dentistry industry: 3D printing technology can be used to print Hearing aids, Organ printing, Digital Dentistry, Prosthetics, 3D skin, drug and pharmaceutical research, bone and cartilage, replacement tissues, organ, printing for cancer research and lastly models for visualization, education, and communication. There are several advantages of 3D Printing technology for biomedical products.



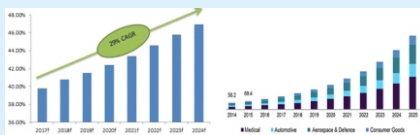
Architecture, building, and construction industry: Construction, however, is proving a tougher challenge. It is thought that 20 commercial buildings around the world have been built using 3D printing so far, the first being by COBOD International, in the Danish capital Copenhagen, in 2017. In China they were able to build 10 one-story houses in a Day. 25% of all new building in Dubai will be constructed via 3D printing by 2030, the government hopes.



Fabric and Fashion Industry: When 3D printing technology enters the retail industry, 3D printed shoes, jewellery, consumer goods and clothing are emergence into the market.

Electric and Electronic Industry: Various 3D printing technologies have already been used broadly for structural electronic devices like active electronic materials, electrode and devices with mass customization and adaptive design through embedding the conductors into 3D printed devices. With multi-material printing technology, the efficiency of electronic system may possibly be adopted in Industry Revolution 4.0.

Food industry: There is a growing demand for the development of customized food for specialized dietary needs, such as athletes, children, pregnant woman, patient and so on which requires a different amount of nutrients by reducing the amount of unnecessary ingredients and enhancing the presence of healthy ingredients.



Nothing communicates ideas faster than a three-dimensional part or model. With a 3D printer you can bring CAD files and design ideas to life -right from your desktop. The 3D printing industry is set on a growth trajectory as evidenced by the growth forecasts. The applications of 3D printing are increasing as more and more research is carried out. The field is definitely a game changer with lots of prospects to look out for. At present, 3D printing technology is beginning in the manufacturing industries, it offers many benefits to the people, company and government. 3D printers capable of outputting in colour and multiple materials also exist and will continue to improve to a point where functional products will be

able to be output. As devices that will provide a solid bridge between cyberspace and the physical world, and as an important manifestation of the Second Digital Revolution, 3D printing is therefore likely to play very important part in all of our futures.

-Prof. Hariketan B. Patel
Mechanical Engineering Department



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