



GCET

GCET
निर्मित विश्वसुखाय

VOICE

2013



**G H PATEL COLLEGE OF ENGINEERING
& TECHNOLOGY**
(A CHARUTAR VIDYA MANDAL INSTITUTION)
VALLABH VIDYANAGAR



A CHARUTAR VIDYA MANDAL INSTITUTION
G H PATEL COLLEGE OF ENGINEERING & TECHNOLOGY



Blood Donation Camp!

In Association with **Indian Red Cross Society**

Date : 23-08-2012 & 11-03-2013

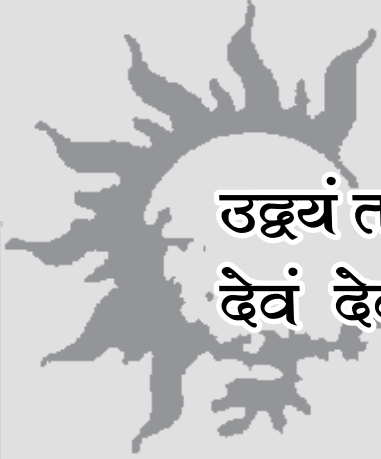


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उद्धयं तमसस्पदि ज्योतिष्पश्यन्त उत्तरम् ।
देवं देवत्रा सूर्यमगन्म ज्योतिरुत्तमम् ॥

- ऋगवेदसंहिता

Beholding the up-springing light above the darkness,
we approach Surya, among the Gods, the excellent light.

G H PATEL COLLEGE OF ENGINEERING & TECHNOLOGY
(A CHARUTAR VIDYA MANDAL INSTITUTION)
VALLABH VIDYANAGAR

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GCET VOICE





Blessings from the Chairman:

Dr. C L Patel

This year GCET is entering into 17th year of its continuous growth as an institute. We are very happy that at a very young age GCET has been ranked at 64th position amongst top 100 engineering institutes of India. It sounds as if the institute is fulfilling the very purpose of philanthropist like Late Shree G H Patel who had put faith in us to initiate with the name of GCET. At the same time, now it becomes the first and foremost accountability for all who belong to GCET as a learner or as a professional to carry forward the name and fame of GCET at mounting heights day by day, year by year. On the occasion of the release of GCET Voice issue-11, I strongly presume that future of this institute would be even greater than the short past it does have. We all are gifted children of lord almighty, the only thing required is to explore the potential, to shape the sense of moral responsibility, to carve the path of pride and to expand the wings, and then the sky is the only limit. I always like to say 'Think globally, act locally', irrespective of caste, creed and everything that limits us, we just need to dream for better tomorrow and nothing is impossible. 'Share and care' that should be the 'mantra' of our life. In the realms of knowledge, be the explorer, be the facilitator, be the innovator and the path ahead is always full of magnificence. Today is the era of knowledge, era of digital revolution as well and with novel idea and vision, creative inputs and fruitful outputs build the path of success.

On this occasion, I congratulate the entire editorial board of GCET Voice for putting efforts to publish 11th issue of the annual magazine of the institute. I offer all my best wishes to GCET family to keep growing.

With all my blessings,

Dr. C L Patel

Chairman, Charutar Vidya Mandal.

Message from Vice Chancellor, Gujarat Technological University Dr. Akshai Aggarwal



It gives me great pleasure to write the message for the 11th issue of GCET Voice, the annual magazine of G. H. Patel College of Engineering & Technology, Vallabh Vidyanagar.

At GCET, students and faculty members are busy in learning and in research & development work in different areas of technology. GCET Voice permits one to express oneself and, thereby, to understand oneself better. It also provides an opportunity for a student or a teacher to formulate her thoughts and present them in a coherent manner for easy communication. These skills are required when one starts working in the world outside the University environment.

We hope GCET Voice will discuss, in all its dimensions, the aspirations of the GTU community to make GTU a great University. I hope such discussions will motivate each one of us to work hard to make a contribution to realize the aspirations. I am talking about a contribution by way of ensuring that --

- every student, who graduates out,
 - o is offered the highest salary package by the industry in his field, and,
 - o becomes an excellent citizen in whom his/ her family, the society and the nation can take pride; and that
- every laboratory and workshop at GCET becomes an active development center for the industry.

While making every single classroom, laboratory and workshop interesting is important, while working to make our programs practice-oriented is GTU's mission, development of the complete personality of every student in all the hues, which come together to create a great human being, is the objective of the University. Let me hope GCET Voice will make an effective contribution towards achieving the objective.

22nd March, 2013

Dr. Akshai Aggarwal

From the Desk of Principal :

Dr. Himanshu Soni



It's my pleasure to write this message for the 11th issue of our annual magazine GCET Voice. During this 17th year of the institute, GCET has created a path breaking milestones and has set a new horizon for the years to come. I am proud of the fact that GCET has been ranked at 64th position amongst top 100 engineering institutes of India (as per the survey of 'Dataquest' in 2012) and yet rising upward by all academic triumphs along with attainments in many more spheres like co-curricular, extracurricular and even in the area of research.

We released 10th issue of GCET Voice little late in Dec. 2012 and within three months GCET Voice team is ready with new release. So I congratulate team GCET Voice-2013.

This year we organized three international conferences in the disciplines of Mechanical, Mechatronics, Information Technology and Electronics & Communication. We hosted these three research-events with a huge participation from all across India and abroad as well. Renowned experts with international repute shared their ideas on the platform of GCET during these events. This has surely accelerated the momentum of research at the institute.

Moreover each professional society chapter at GCET has also celebrated the spirit of engineering with a bunch of activities during this academic year. Apart from this there were many non-technical events as well which took place during the year to ignite the minds of our budding technocrats.

GCET Voice has remained as a canvas to portray different shades of creativity of our young learners and faculty members as well along with the reports of all our attainments in various activities we carry out during the year. So I am sure that this year again GCET Voice would prove to be the real voice of GCET, voice emerging from the soul of the blossoming hearts and it would provide the soil to nourish innovative ideas to be executed in the years to come. I heartily congratulate the entire editorial board for putting their efforts and taking pains to shape our very own voice: GCET Voice.

Dr. Himanshu Soni
Principal

Editorial Annotations

Prof. Nikhil Joshi



One of the finest writers in English in 19th century, George Bernard Shaw has said that one whom we call reasonable always tries to adjust with the worldly norms and loses one's individuality. That is why those who have paved a new way of success are always somehow unreasonable. A writer of 21st century, Eli Broad who is basically a business man, has recently released his latest book, 'The Art of Being Unreasonable: Lessons in Unconventional Thinking'. Broad had started his business ventures by borrowing twenty five thousand dollars from his friends and today he is a millionaire. He talks about being unreasonable, means doing something different from what others are doing and doing it in a different way. Reasonable people cannot achieve something great in life. A movie 'An Unreasonable Man' was released in year 2006 in USA which was based on the life-story of political activist Ralph Nader who has also said that the reasonable man adopts himself to the world, unreasonable man persists in trying to adapt the world to himself, therefore all progress depends on the unreasonable man. So being unconventional requires lots of courage, novel vision and great confidence but conventional thinking limits you to certain boundaries and that is what being unreasonable is. To achieve something immense in life we really need to go beyond conventional wisdom. To train people in being unreasonable, another business man named Daniel Epstein has started 'Unreasonable Institute' as well. To learn more about being unreasonable you can visit: www.unreasonableinstitute.org.

We released 10th issue of GCET Voice at the end of December 2012 and it was a kind of challenge to release 11th issue in April 2013 but finally being unreasonable we could make it and we are glad about it. Again with a new zeal, new voice of creativity, along with lots of information regarding activities carried out during the current academic year 2012-13, we are presenting GCET Voice 2013. It's indeed our pleasure to release 11th issue of GCET Voice on the occasion of 17th annual day of our institute. I must make a remark that it would have not been possible to make out this issue just within 3 months without unconditional efforts of entire editorial board and students' committee in particular. I personally feel great pleasure to congratulate every contributor who has given voice to his/her creative instinct to put it in black and white for GCET Voice 2013. Moreover we also received many colorful contributions: paintings and photography. I must express my gratitude towards our management and principal for always being beside us in the journey of GCET Voice 2013.

Prof. Nikhil Joshi
Convener, Publication Committee

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Penogram

Penogram



Guest Author

ફરી ફરી

ઘેરી વળ્યા છો ને બધા ખંજર ધરી ધરી
ફૂલો અમે તો વહેચશું ખોબો ભરી ભરી

ખુલ્લા રહે છે દાર ઘરના આવજો કટી
જગ્યા નથી પણ આશરો આપું જરી જરી

આફત મળે સામે અડીખમ હું ઉભો રહું
જીવ્યો નથી હું કોઈ પળ અમથો ડરી ડરી

મોટા થવાની વાતમાં ખોટું કશું નહી
સારું હશે તો આવશે ઉપર તરી તરી

માઠો સમય હો કોઈનો દોડી જતા રહો
અવસર મદદનો ના મળે પાછો ફરી ફરી

- સંજય ચૌહાણ
વડનગર

મને આજે એમ વિચાર આવે છે...

મને આજે એમ વિચાર આવે છે કે,
કુદરતના રચેલા આ નવરમ્ય વાતાવરણમાં,
નાનાં નાનાં સુંદર પક્ષીઓ કલરવ કરી રહ્યાં છે,
તેમનાં આ મધુર કલરવમાં સ્મિત પ્રગટી રહ્યું છે,
અને આ સ્મિત મારા હૃદયને સ્પર્શી રહ્યું છે,
અને મારું હૃદય ફૂલ સમાન ખીલી ઊઠ્યું છે,
અને આ ખીલેલું હૃદય મને કહે છે કે,
મને આજે એમ વિચાર આવે છે.



- થોરીયા જયદિપ જે.
2nd EE

બાળપણના મસ્તીભર્યા દિવસ

કાલે ખીલતાં ફૂલ આજે પડીને મૂર્ઝાઈ ગયા,
બાળપણના મસ્તીભર્યા દિવસ અત્યારથી જ મૂર્ઝાઈ ગયા.
ફૂલોને તો માળીએ સ્વાર્થ ખાતર અલગ કર્યા,
પણ બાળપણને તો પોતાનાએ જ બાળપણથી અલગ કર્યા.
હરતા ફરતા અને ઘરને સજીવ રાખતા બાળકો,
આજે ઘરને નિર્જીવ બનાવી ઘરથી ચાલ્યા ગયા દૂર.
આખો દિવસ જીંદગીના દરેક પળને માણતાં બાળકોને,
આજે જીંદગીની આ અનોખી હરીફાઈમાં લગાવી દીધાં.
ઉદાર માતા-પિતાને તો લાગે છે આ સુરક્ષિત પગલું,
પણ એ તો નાના બાળને જ ખબર કે આ પગલું કેટલું છે તણાવભર્યું.
રજાઓ માણવા આવેલા બાળકોના ચહેરા પર જોઈ મેં એમ અનોખી ખુશી
જે આપણા ચહેરા પર આપણા બાળપણમાં દરેક પળે-પળ રહેલી.
ચાલો એ જ કળીને ફૂલ બનીને મહેકવા દઈએ,
અને એ જ બાળકને બાળક બની જીવવા દઈએ.

- કીશન પટેલ
2nd EE

**હું આ ક્યાં અટવાઈ ગયો ?**

જીવનના આ પથ પર ચાલતાં - ચાલતાં,
હું આ ક્યાં અટવાઈ ગયો ?
દુઃખના પરપોટામાંથી ફૂટીને,
હું આ સુખના સાગરમાં ક્યાં તણાઈ ગયો ?
હું આ ક્યાં અટવાઈ ગયો ?
ઘણું ચાલ્યો છતાં પણ ન મળતાં,
ન ચાહવા છતાં પણ મળવા પામ્યો,
હું આ ક્યાં આવી ગયો ?
હું આ ક્યાં અટવાઈ ગયો ?
સુખમાં સાથ આપનાર તો કેટલાયે હતાં,
દુઃખમાં સાથ આપનાર સાથે,
હું કેવી રીતે બંધાઈ ગયો ?
હું આ ક્યાં અટવાઈ ગયો ?
ન જાણે કેટલાય સંબંધો જોડ્યા,
વહાલસોયા સંબંધોની જાળમાં,
હું કેવી રીતે જકડાઈ ગયો ?
હું આ ક્યાં અટવાઈ ગયો ?
કેટલો કઠિન હતો એ રસ્તો,
પણ તે કઠિનાઈઓને પાર કરતો,
હું આ ક્યાં આવી ગયો ?
હું આ ક્યાં અટવાઈ ગયો ?
જીવનમાં દરેક વસ્તુનો “સ્પર્શ” થતો,
પણ એ દરેક “સ્પર્શ” માંથી,
હું કેવી રીતે ઓળખાઈ ગયો ?
હું આ ક્યાં અટવાઈ ગયો ?

- સોલંકી જેનીશ પી. ‘સ્પર્શ’
1st CH



જીવ વેળા

કુશલ મ. શાહ
1st ME

ખબર ન હતી માનવી તું ક્યાં પહોંચીશ,
પણ એટલું તો નક્કી હતું કે તું અહીં તો ન પહોંચીશ !
માનવી તો ગતયુગની આ વિચારધારાને તોડી,
પહોંચ્યો આ જગતની પરાકાષ્ટાએ, સહુને વખોડી !

માનવી તું માનવ ન રહી,
બન્યો દાનવ માનવ મહીં !
કમાલ છે ને, આ કળયુગની,
કસોટી થતી નિર્દોષ જીવની !

મૂક પ્રાણીઓનો જીવ લેતો, તું નિદેયતાથી,
ઈશ્વરનાં પ્યારાઓને નાંખતો મારી, સહજતાથી !
દુઃખની વેળા પ્રભુને પ્રાર્થના કરતો ભારી,
તે સમયે માનવી ફળની આશા ન રાખતો સારી !



માણસ

માણસ માણસનો મતલબ ભૂલી ગયો
ને હું બેમતલબનો આમ જ રહી ગયો
ગાડરીયા પ્રવાહમાં એમ જ વહી ગયો
ને માણસ, માણસનો મતલબ ભૂલી ગયો.
આ મારું ને આ તારું કરવામાં રહી ગયો
ચાર દી ની જીંદગી જીવવાનું ભૂલી ગયો
બસ પોતાના સ્વાર્થમાં રાચતો રહ્યો
ને માણસ, માણસનો મતલબ ભૂલી ગયો.
આજનો મનેખ પોતાની અસ્તી ખોઈ બેઠો
અંતર આત્માને અવગણી મગજને તાબે થઈ બેઠો
એમ અમથું આ મગજ ને શું પામી ને બેઠો
ને માણસ, માણસનો મતલબ ભૂલી ગયો.
પોતાને મૂકીને પારકી પંચાતે રાચતો રહ્યો
લખ્ખણો અવગણી પારકા દોષ શોધતો રહ્યો
માટે જ પારકામાં રાચતા, સ્વયં ને ચુક્યો ને
ને માણસ, માણસનો મતલબ ભૂલી ગયો.
જ્યાં અમથી વૈચાર્યકતા શું પામ્યો
પોતાને જ સર્વાધીક માનવા લાગ્યો
નાશવંત એવા એ દેહનું મૂલ્ય ભૂલ્યો
ને માણસ, માણસનો મતલબ ભૂલી ગયો.
અજવાસને અવગણી અંધારમાં ઓગળી ગયો
કુદરતના પ્રેમને સ્વાર્થમાં સળગાવતો રહ્યો
કુદરતે જલાવેલ પ્રેમના 'ચીરાગ' બુઝાવતો રહ્યો
ને માણસ, માણસનો મતલબ ભૂલી ગયો.

સોલંકી ચીરાગ

નાટક છે જીંદગી...

જીંદગીની રંગભૂમિની શરૂઆત છે બાળપણ
સમજ નથી સારા કે ખરાબની કંઈપણ
સગા વડાલા છે મુખ્ય મહેમાનો ને
સાથી કલાકારો છે યજમાનો
માનો કે ના માનો, પણ જાણે છે તમને આ દુનિયાદારો.
આવે છે કિશોરાવસ્થા ને
રંગભૂમિ પહોંચે છે પ્રથમ અવસ્થાએ
આવી જવાની ને પ્રેમ હાસ્યની છે રમઝટ
જવાની તો જવાની, પણ કર્મોની છાપ નથી જવાની
આવે છે વૃધ્ધાવસ્થા જેમ વિલનની પધરામણી
લાકડીના ટેકે જેની થાય છે સરખામણી
નથી જીંદગી ખમખાલી એવું કહે છે આનંદ
નાટક છે જીંદગી, નથી કોઈ આ સામાન્ય કવાલી
સારુ ભજવશો તો જરૂર વાગશે તાલી
ખરાબ ભજવતા મળે પદ, આલી કે મવાલી
નાટક છે જીંદગી, એને ભજવો દિલોજાનથી
જીવો તો એને માનથી ને મરો તો શાનથી.

આનંદ પરમાર
2nd CH



પ્રકૃતિ - ઝરુખેથી...

સમય સાથે તાલ મિલાવવા દોડતા આ વણથંભ્યા પગ,
પ્રકૃતિ, તારી ખુશ્બુ ના સમંદરને
શ્વાસમાં ભરવા કેમ થંભી ગયા?
સેંકડો ચોટ ખાઈને પાષાણ બની ગયેલ આ હૃદયને,
તારી નાની સરખી હવાની લહેરખી કેમ વિચલિત કરી ગઈ ?
Digital Screen જોનાર Tech Savvy દ્રષ્ટિને,
ઝરુખા બહારની પ્રકૃતિ કેમ સ્પર્શી ગઈ ?
શ્રધ્ધા હતી, નશો છે માત્ર તેણીની અફીણી આંખોમાં,
ખરી જતી નાનીશી ફૂલની પંખુડી, એ શ્રધ્ધા કેવી રીતે તોડી ગઈ ?
Freedom Philosophy માં માનતા કથિત Modern મનને,
તારા બાહોપાશ માં કેદ થઈને તરફડવાનું કેમ ગમી ગયું ?
મુખ પર Fake Formal Smile ને નફરત કરતા હોઠને,
તારી ઝૂકેલી નજરનું કાલ્પનિક સ્મિત કેમ હસાવી ગયું ?
સ્વયં માટે એક ક્ષણ પણ ના કાઢી શકનાર આ વ્યક્તિને...
પ્રકૃતિ, તારા માટે કલાકો ક્યાંથી મળી ગયા ?

નાલવયા જુગર
2nd ME

**દરખાઓ...**

પડી ભાંગ્યો છું હું સહારો આપનાર જોઈએ છે,
બીજે ચાલ્યો ગયો છું હું રસ્તો બતાડનાર જોઈએ છે,
ક્યાંય ના ચાલ્યો પણ મને ચલાવનાર જોઈએ છે,
જીવનની આ હરીફાઈમાં કોઈ જીતાડનાર જોઈએ છે.
અંધારામાં જ રહ્યો એ દીવા તરફ લઈ જનાર જોઈએ છે,
ના બોલી શક્યો હું કોઈ બોલાવનાર જોઈએ છે,
બહુ અથડાયો છું હું એ ટક્કરથી બચાવનાર જોઈએ છે,
દુઃખી છું હું દુઃખ ભૂલાવનાર જોઈએ છે.
સ્વાર્થી બન્યો હું સ્વાર્થને તોડનાર જોઈએ છે,
દીવાલ છે સામે બારણું બનાવનાર જોઈએ છે,
બહુ ખાડા છે જીવનમાં એ પૂરનાર જોઈએ છે,
ભયથી ડર્યો છું હું કોઈ રક્ષણ આપનાર જોઈએ છે.
બહુ જ ઈચ્છાઓ છે મારી કોઈ સંતોષનાર જોઈએ છે,
પ્રશ્નો ઘણા છે પણ જવાબ આપનાર જોઈએ છે,
સ્પર્શની ધારાઓ છે આ કોઈ વહેવડાવનાર જોઈએ છે,
પ્રાણ તો છે પણ કોઈ પૂરનાર જોઈએ છે...

મીતેષ અરોરા
3rd MC



बारिश और गुज़ारिश

रात के पिछले पहर
दस्तक दे रही बारिश
सीनेमें संजोयी, सोई
सदियों पुरानी कोई
जहन से उठी गुज़ारिश

बारिश की बूंदो का एक झूंड
कर रहा मशक़त
दरिचों की दरारो से
कमरे में कदमपेशी की
ख़्वाब सारे जाके छूप गए
मध्धम सी जलती लौ के
नीचे के अंधेरो में

मेरे ही नाखूनों की चोट से
बिस्मिल हुआ मेरा अक्स
जाके लिपट गया आईने से
उसी के खून के कुछ कतरे
फर्श पे पडे हैं यूं गूमसूम

मेरे अन्दर का आदमी
अपनी ही पीठ में चुभा
खंजर निकालकर
ढूँढता फिरता अपने कातिल को
बोझिल बनी ये रात
खत्म होने को है चाँद
खिडकी से दीवारों पे उतरा पानी
बना रहा है कुछ शक्ले वहीं
यूं ही लगातार तेज़ रफ्तार
है बारिश और गुज़ारिश

- प्रा.निखिल जोशी
को ऑर्डिनेटर, लेन्गावेंज क्लब



तुम कौन हो ?

मैं तो एक बीज थी
तुमने उसे आकार दिया
मैंने जो सपने देखे
तुमने उसे साकार किया
तुम कौन हो ?
क्या हो साकार
या निराकार
क्या मैंने तुम्हें देखा है, या सुना है ?

या तुम मौन हो
तुम कौन हो ?
तुम जो भी हो
जहाँ भी हो
मैंने बस मान लिया
मैंने तो सपने देखे
तुमने उसे साकार किया

- प्रा.इला झा
यांत्रिकी विभाग



अनुशुबु दवे
2nd EC

ऐ बारिश
तू ये बता
क्या तू हमसे नाराज तो नहीं ?? ॥
तरस रहे हैं हम तेरे मस्तीभरे अंदाज़ से खेलने को....
प्यासी है ये धरती तुझे अपना बनाने को....
पैड़ और पौधे भी पूछ रहे हैं
कब मिलेगा उन्हें तुझसे मिलने का मौका ?? ॥
और हम उन्हें ये कहके मना लेते हैं
आज ये पानी पी लो क्या हमने कभी आपके मिलन को रोका??
यौवन के खिले फूल भी है तेरे इंतज़ार में
कहते हैं तेरे पास होने से ही तो है चमक हमारे प्यार में....
बच्चे भी रो रहे हैं तेरा सतरंगी स्वरूप देखने को...
अब हम उन्हें कैसे समझाये तेरे इस प्यारभरे मिजाज़ सहने को...?? ॥
अगर तुझे परवाह है
तेरी राह में तड़पते आशिकों की...
तो दो बूँद बरसा के दिखा दे
कि तू उनसे कभी नाराज थी ही नहीं.....

कहानी एक माँ की...



क्या कहूँ ? कैसे कहूँ ? उसके लिये जो भी कहूँ कम है ...
हर किसी के लिये वो जिंदगी से बढ़कर है ...

माँ यही शब्द होता है जब कोई बच्चा पहली बार बोलता है,
कोई माँ तो कोई मम्मी तो कोई बुलाता है अम्मा,
जिसके चेहरे होते तो अनेक हैं पर प्यार एक सा है,

ना महिनें अपने बच्चे को खुद में बसाकर जिंदगी जीती है,
वो माँ ही होती है जो दर्द को भी हसकर पीती है,
बच्चो की हसीं उसकी हसीं बन जाती है,
और उनकी ही जिंदगी उसकी जिंदगी बन जाती है...

क्या कुछ नहीं करती ? क्या कुछ नहीं सहेती ?
वो है ही हमारी जिंदगी मे एक परी सी,
फिर भी हमें उपरवाले से शिकायत रहेती है थोडी सी...

चोट बच्चे को लगती है पर दर्द माँ को होता है,
वो माँ ही है जो अपने आप से ज्यादा बच्चे को प्यार करती है

खुद का पेट भरे ना भरे बच्चे का पेट जरूर भरती है,
वो माँ ही होती है जो बच्चे की खुशी के लिये कुछ भी करती है...

खुदा हर जगह नहीं आ सकता इसीलिये उसने ईस प्यारभरे
सागर रुप माँ को बनाया है,
और वही प्यारभरा सागर हम पर प्यार की बरसात करता है...

बचपन तो बीता उसी कि ही गोद में, यूँही हसकर करती थी प्यार,
रखती थी खयाल खुद की जान से बढ़कर...

सच कहूँ तो कोई नहीं होगा दूजा हमारी माँ जैसा,
जिसे बेझिजक करना प्यार खुद की पहली महोब्बत जैसा...

ना छोड़ना साथ उसका, रखना हर पल खयाल उसका,
जिंदगी है तब तक कर देना सारे जहाँ मे नाम उसका...



शाकिन डी. शुरतवाला
3rd MC

कैसे भूल पाऊँगा



ये चार साल कैसे भूल पाऊँगा...
फस्ट ईयर में लगता है रेगिंग का डर,
सेकन्ड ईयर में होता है सिनीयर होने का गर्व...
बना के कॉलेज का बहाना,
वो कैन्टीन मे आना,
और बंक मार के लेक्चर में ना जाना..
कैसे भूल पाऊँगा... ।
वहि पासवाले से कहेना, भाई एक पैन तो देना
और पिछली बैन्च में वो कार्टून बनाना...
ईन्टरनल के एक दिन आगे कहना,
भाई सिलेबस तो बताना
एक्जाम में कहना "दिल खोल के दिखाना"
कैसे भूल पाऊँगा... ।
पता नहीं चलता कि कैसे आ जाती है,
थर्ड ईयर की बारी
और होती है प्लेसमेंट की तैयारी...
लेकिन तब याद आती हमें मम्मी प्यारी...
कैसे भूल पाऊँगा... ।
वो भी क्या दिन थे दोस्तो,
सबमिशन का टाईम आना और टर्मवर्क
की गहराई में डूब जाना,
एक दिन फिर ब्लेकलिस्ट में नाम आना,
और ये देखकर फिर हमारी जान जाना...
कैसे भूल पाऊँगा... ।
फोर्थ ईयर में भगवान की याद आती,
क्यूँकि प्लेसमेंट की बारी जो आती...
कैसे भूल पाऊँगा... ।
बस अब ये बात हमें है सताती,
काश दिया होता पढ़ाई में थोड़ा और ध्यान...
तो होती हमारी भी अलग पहचान...
कैसे भूल पाऊँगा... ।
कॉलेज से बहुत सीखा है हमने,
जिंदगी के पहलू को जाना है हमने...
जब कॉलेज के दिन याद आयेंगे
तब आँखो मे खूशी के आँसु बरस आयेंगे...
जिंदगी के ये हँसी पल मैं कैसे भूल पाऊँगा...
कैसे भूल पाऊँगा ... ।



पार्थ वैद्य
4th IT

अकेला जा रहा था...

अकेला जा रहा था राह पे तन्हा, कोई नहीं मुझे है समझ पाया,
ठंडा सा एहसास कराते बूंदो ने तब आसमाँ पास होने का एहसास जताया ।

साथ - साथ चलते बढता जा रहा था हमारा याराना,
अपना सा बनने लगा था सफर में मिला एक अन्जाना ।

कर रहा था मैं उससे दिल खोलकर सारी बातें
चूपचाप सा सुने जा रहा था वो बीच-बीच में गड़गड़ाते ।

कहना था शायद उसे भी कुछ, पर कह नहीं पाता था
दर्द अपना सारा लफ्जों में बयाँ कर नहीं पाता था ।

शब्द बने आँसुं और एकाएक नीचे गीरने लगे
बीच राह में मुझको पूरा भीगोने लगे ।

बूत सा बना मैं चुपचाप उसे देखे जा रहा था
अपने प्यार की जुदाई में बिना रुके वो रोए जा रहा था ।

चूपचाप खड़ा कोई और वहाँ हमारी बातें सुने जा रहा था
बिना बताये सफर में साथ हमारा दिए जा रहा था ।

थी वो धरा जो आँसुं सारे उसके पीये जा रही थी
संजोये उन्हें सीने में दर्द अपना छिपाये जा रही थी ।

औरों के लिए अपनों से दूर रहा करते थे
पास होने पे भी एकदूजे की जुदाई में तरसे जा रहे थे ।

आँसुओको बना के अमी लोगो में बाँटे जा रहा था
संजोये उसे दूजा जिंदगी औरों को दिए जा रहा था ।

मिलन उनका क्यों हों नहीं सकता, मुझे ये चुप्पी से समझ आ रहा था
कहा नहीं उन्होंने कुछ पर मजबूरीयों का उनकी एहसास मुझे हुए जा रहा था ।

आँसुओ को उसके बारीश कहे सारे जहाँ ने ज़रन मनाया
चला जा रहा था राह कोई और भी तन्हा, जिसे कोई नहीं है समझ पाया ।

मिहिर चावड़ा
2nd ME



ये पल...

समुंदर की गहराईयों सी भी हमारी जिंदगी
जलती हुई आग सी थी हमारी दिल्ली
बहती हुई इन फिज़ाओ के साथ
आओ तुम्हें ले चलूँ इन यादों की गली...

था वो कॉलेज का पहला दिन, बेकरार था मेरा दिल..
ले कर नई खुशीयाँ, लेकर नई उम्मीदें,
चल पड़े थे खोजने अपनी अपनी मंज़ीले
यूं तो पुरानी यादों से हम अभी तक थे जुड़े,
के कुछ नये पल भी इन यादों में जूड़ने लगे
दोस्त बने नये, नये बने कुछ अपने, और ऐसे ही शुरु हुई कुछ हमारी दास्तान...
ये पल साथ रहेगे यादों में, ये पल पास बुलायेंगे यारो से...
ये पल जीये थे कुछ हमने ऐसे ही... ये पल जीये थे कुछ हमने ऐसे ही...

हुए अब हम भी सिनीयर्स, मनाये फ़ेशर्स पार्टी वीथ जूनियर्स...,
लेक्चर्स से होने लगी दुश्मनी और लैब से परेशानी,
कैंटीन ही था हमारा आशीयाँ, रोज की वो गरम चाय और साथ मे इडली फ्राय,
मजबूत बनाती थी हमारी यारीयाँ, ऐक्वाम का तो था बहाना.,
वो तो सारी रात था जो हमें जगना,
वो हर फ्रायडे की फिल्में और साल भर की मस्तीयाँ...

ये पल साथ रहेंगे यादों में, ये पल पास बुलायेंगे यारो से
ये पल जीये थे कुछ हमने ऐसे ही... ये पल जीये थे कुछ हमने ऐसे ही...

फायनली..फायनल ईयर आया, जोब की फीकर ले आया...
यही सोचते थे, अब तक क्या है हमने पाया...
साल जो था आखिरी, करते थे कुछ - कुछ तूफानी
अब तो आनेवाली थी हमारी जुदाई की बारी...
आखिर में आया एन्युअल डे... नहीं होना चाहते थे सबसे परे...
अलविदा कहने की जब आई बारी... तो हमारी आंखें भर आई...
और ईन्ही आंखों में, बस रह गए ये पल...

ये पल, साथ रहेगे यादों में... ये पल, पास बुलायेगे यारो से...
ये पल जीये थे कुछ हमने ऐसे ही... ये पल जीये थे कुछ हमने ऐसे ही...

अभी भी चल रही है उन यादों की मस्ती...
अभी भी बेह रही है उन फीज़ाओं की कश्ती.
ऐ मेरे दोस्तो...
कभी ना भूलना वो यादों की गली, वो यादों की गली...



जय अनिलकुमार त्रिवेदी
4th EC

दीप देवेन्द्र पटेल
4th EC



The Epic Love

The way this world calls it,
As subtle as a marshmallow,
Enlightened from within,
Sacred from outside.
Reason for a thousand smiles.
And the world calls it unconditional Love !
As strong as it can be,
Even the Mighty Lord adores it.
Sometimes hard and sometimes soft,
Reason for a thousand fights.
And the world calls it wicked Love.
As powerful as a lightning sword.
Even the selfish world craves for it
As pure as a holy spirit
Justified soul from within
And the world calls it Melodramatic Love
As fierce as a fireball.
But cools the world as a snowfall
Though the reason for Mystic chaos
The only bond for insecured folks.
And what keeps this
world goin,
Is nothing but the epic Love;
The way this world calls it !

- **Urvil Bumiya**
3rd MC



Tonight we stand

Let harmony reign and let wars end,
On this altar of peace, tonight we stand.
Let cruelty be vanished, the lights be ceased.
The angels are glad, the heavens are pleased.
Let there be love in the wounds we mend.
On this altar of peace, tonight we stand.
Let there be no reason for blood to be shed.
From war we refrain, towards peace we head.
Let people of all religions together blend.
On this altar of peace, tonight we stand.
If pain did not go and lights did not lade.
Then who would be there to come to our aid ?
Calamity stops, words of wisdom we send
On this altar of peace, tonight we stand.
The borders prevailed and the harm has been done.
Or else the earth would be together as one.
So why keep the borders? Why not let them end?
On this altar of peace, tonight we stand.
Innocence is being, punished, people have died
Few of us were true, most of us have lied.
Fear from the miscreants is the fear we end
On this altar of peace, tonight we stand.
Let my efforts not go in vain.
Don't let humanity go down the drain.
This is my plea to bring peace to our land.
On this altar of peace, tonight we stand.
For divided we fall and united we stand
On this altar of peace, tonight we stand.
"Let Peace Prevail"



- **Rudra Khunti**
2nd CP

A Krishna Meditation

Vrndavana's rivers, lakes, and hills
Rang out with lovely hums and trills
As flocks of birds and maddened bees
Rejoiced among the flowering trees.
To those idyllic woods and glens
Re-paired Govinda with His friends,
Sri Rama and the cowherd boys,
To taste the most exquisite joys.
And as they walked along the way,
Absorbed in herding and in play,
Sri Krishna, beauty absolute,
Began to blow His mystic flute.

With peacock plume upon His head,
And small blue blossom on each ear,
He entered Vraja's woods with tread
Sublime a dancer without peer.
His golden-yellow garments glowed,
His garland reached down to His knees,
And from His lips the nectar flowed
And filled His flute with melodies.
As Krishna thus began His day
With friends who sang His glories sweet,
He beautified the forest way
With fine impressions of His feet.



Prof. Nirav Gajjar,
CSE Dept.

O girl!!!Accept my Love.

Eyes become bright,
World becomes silent,
Heart becomes happy,
When you surround me.

My heart forgets to beat,
Eyes forget to blink,
My soul becomes divine,
When you surround me.

Sacred beauty of your's,
Heavy on my heart.
The princess of heaven,
On Earth,you are mine.

You shower flowers of love,
You bring rain of affection,
The daughter of queen & king,
I bring my heart in form of ring.

The princess accept my love,
To propose You i bow.
The blood of my heart,
Without you I am pointless dart.

Humble is my request,
You are my heart's quest.
Endless is my love for u,
O girl,o girl i love u lott.

Harsh Dhanesha
1st MC

**What I Could Never Tell My Mother**

What I could never tell my mother
Isn't her fault; it's mine
It's a thing wrapped inside me,
coiled like wire with the filament exposed
She could accept them those things I'm sure
Maybe even love them the way she loves me;
little puzzle pieces
That fell out of the box when we were
putting it under the sofa
After we almost finished the puzzle together
But I hide them inside my deepest aorta
Keeping them safe because who wants to
grab a still-beating heart?
It would kill me to take those secrets out
So my mother may know they exist
But she lets me keep them.
And maybe that's the real secret, the one that
Shhhh
She doesn't know
It's that I need some secrets of my own.



Hitesh N. Basantani
4th MC

MAH LYF WIDOUT HER.....!!!

So what? she is not with me ryt nw;
I still love her a lt..!!!
It is said dat memories give pain;
Bt dis memories give me happiness in pain..!!!
I can't lv nyone else nw;
Coz lv can happen nly once..!!!

She behaves as if she is happy nw;
Bt I knw she is not..!!!
Coz she also lvs me so mch..
And misses me a lt..!!!
We bth are tryin to give Fake smyls to d world
Bt we r not succeeding in dat...!!!

Now my I am jst dragging mah lyf & not living it;
Coz mah soul is not wid me ryt nw...!!!
Jst findin mah soul here & der;
So dat I can start livin mah lyf...:-)

Karan Khatwani
2nd EE



It's time for a break

It's time for a break !
 Started off as a rock hard mountain
 Full of courage as a dancing fountain
 Treading the path of desperate dreams
 Without knowing the worldly tricks
 As lovely as it seems in the beginning
 An adrenaline rush without thinking
 Suddenly an outburst of challenges
 And your head still held high
 Fighting with lively hopes, but faith kissing goodbye
 Conscience shaking and adrenaline sinking
 Chaos made my shadow, thinking
 Standing amidst the bridge of fate
 One step wrong and your life at stake
 A thought pops up in my mind,
 Asking me to surrender against time
 So be it but the head still held high
 My inner voice demands to the mighty;
 Too much of asking and too much of wait,
 A much of hatred and a bunch of stress
 Wait for a while my highness
 Coz ryt now, it's time for a break !!!

- **Urvil Bumiya**
3rd MC



GCETIAN

Never dare to call us GAY
 Just because we have common STAY
 We get up in to our FEET
 To create a holy SHIT
 We make him feel ALONE
 When someone is at HOME
 We always BORROW
 Whenever fellow has SORROW
 We hate PHILOSOPY
 We are best in SOCIOLOGY
 We have CELEBRATION
 For every DISTINCTION
 We like to play a LOT
 If there is something HOT
 We forget our GOOD
 When it's a case of FOOD
 We never obey RULES
 When it's a time to find CLUES
 We are not only the GRADUATE
 We believe we are FORTUNATE

Jay Patel
3rd EE

Imagination

To see a shape in moving clouds,
and a palace in the sand
To see a world in the waves
and life in the dead !!!
To see a heaven in the flower
and a sound in a mute
Hold your trust in the palm of your hand -
and patience in the hour.

The world seems boring
If lived in a single tune
As it would have seemed
If there was no rain in every June !
To add a taste to our life
If we say the earth is round
No large difference will it create
Except a little bit of sound !!!

The power which we have
to feel what we want !
Is the grace of god on us
To teach us not to flaunt.
Imagination - so as we call it
is not only a mere blessing -
It makes us & our dreams fit
without any sort of stressing !!!



- **Asmita Mehta**
1st EC

Days Passed Years Passed Generations changed so Fast.

Days Passed Years Passed,
Generations Changed so fast
We grew so modern,
with all the burden.
We Still have the morning Tea,
But we forgot to thank
the maker of the tea
She waked up early
and was late to bed
Did we ever try to understand
the feelings she had
She made the breakfast every morning,
We never had.
We had our pocket money,
but we never tried to know how
Papa saved each penny.
He went for the cheap,
To provide us the best attic
Years passed his things grew old,
To provide us the best of the world
We didn't respect them,
We forgot to love them.
Their hair turned grey fulfilling
our needs,
We never thought of
shortening our lists.
They happily lifted up
the burden called children
knowing that
wont get anything in return.
That's why they are the heaven
and the way to heaven,
we are the so called children.



- **Saumya Nair**
1st EC

HOPEFUL HOPE

Sittin in a corner I saw the world passing,
 Judging nothing simply observing,
 All kinds of people filled with different emotions,
 Glad, sad, calm, angry all kind of waves in human ocean,
 I don't know what i was searching,
 Trying to figure out the feeling that was hurting,
 Faces with each a different story writ on it,
 Some fresh ones with intelligence that lit,
 Some horrified with experiences that had been brutal,
 Yet the children you see filled with enthusiam,
 Their words so simple far away from any sarcasm,
 Artists that could capture the essence of anything,
 with enviromental canvas giving your imagination a new
 wing,
 A father playing football with his three kids,
 Passing on a family tradition giving them some tricks,
 A young couple walking hand-in-hand,
 Lost in their embrace making future plans,
 A pregnant lady seeing around busy talking to the baby,
 Nurturing inside her a life so tiny,
 Felt like everyone except me was moving,
 Still like a sea before storm I sat wondering,
 My vision blurred surrounded by deep darkness,
 Wanted to know the secret to move on in a life so
 Merciless,
 But then a gust of wind broke my meditation,
 I noticed something new which caught my attention,
 Life was never meant to be a bed of roses,
 You'll have to deal with whatever imposes,
 No matter what but each face will have one thing in
 Common,
 Hope will always be there trying to give you the omen,
 Giving light on darkest of the paths guiding like a
 Compass,
 Coz hope knows that this too shall pass



- Vinita Goswami
4th IT

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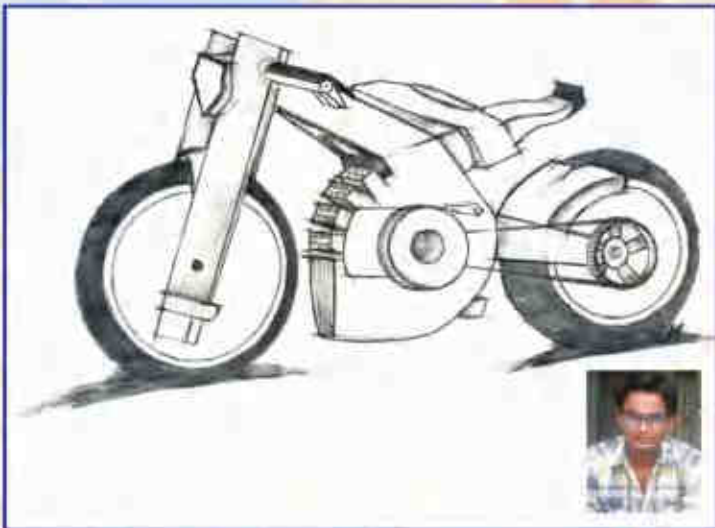
Canvas PAINTING



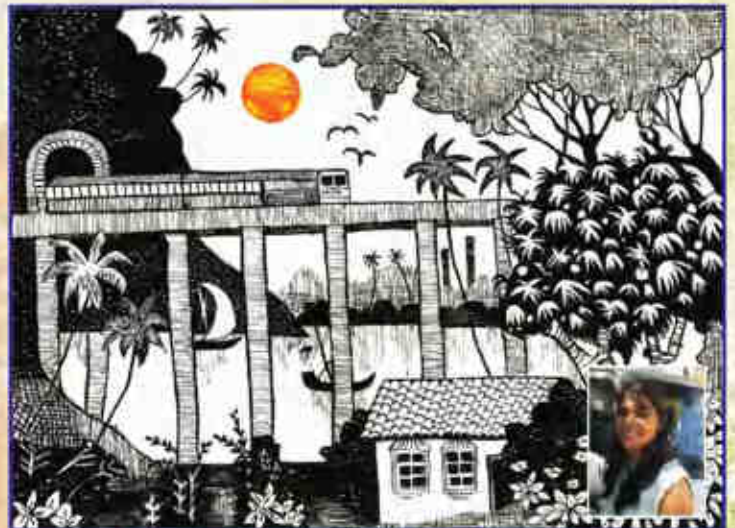
Rutu Patel (4th CP)



Vishwas Madhavi (3RD EC)



Kaushal Ramani (2nd ME)



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Anand Parmar (2nd CH)



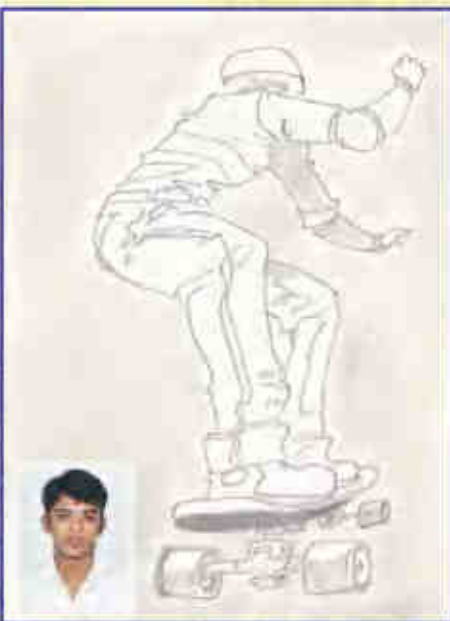
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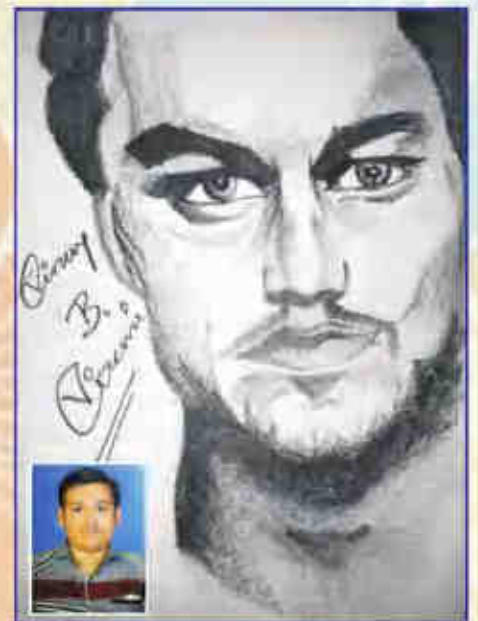
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Yash Shah-2nd EC



Aniket Sheth (2nd EE)



Kushal Shah (1st CH)



Neel Patel (3rd MC)

Scriptogram

Address to Teachers & Students

Dr. Palanki Balakrishna

(Principal, AnjammaAgi Reddy Engineering College for Women, Hyderabad.)



Guest Author

India gave up its British model of governance and adopted its own constitution on Jan.26, 1950. The Governor General of a dominion made way for the President of a sovereign democratic republic. Since then, there have been republic day celebrations every year.

Yes, Ambedkar and several other patriots did their job in drafting the constitution. The politicians did their job by amending it several times. What I am looking for now is not the Constitution of the Republic of India. I am looking for my own constitution. In my view, each one of us ought to have own personal constitution. I am looking for the drafting, implementing and amending of our personal constitution.

In our personal constitution, we resolve to do a professional job. A teacher is professional if he looks forward to his class without absenting or coming late, if he is able to enthuse the students and motivate them towards serious learning, if he is able to complete four Units before the mid term examinations after providing some time for revision, if he is able to set a question paper without mistakes in it, and if he is remembered by his students long after they left the college after completion of their studies. He is professional if he is able to do some thing more to the college than simply teaching and invigilating, and if he attends the Republic Day, Independence Day and Annual Day celebrations at the college. He is professional if the college too remembers him for long after he leaves for greener pastures. If you have a degree in Business Administration, use its principles even outside the class room in identifying new goals and in structuring activities. If you have a degree in Engineering, use it for improving our DG set, our load distribution, our fabrication, our communication and so on. If you happen to be a librarian, do not sleep until all the scheme books arrive and are distributed. If one route is blocked, take another route. If you are capable of uploading the attendance to Jawaharlal Nehru Technological University Hyderabad website, do it religiously on every 10th day of the month, without waiting to be reminded on that date. Of course keep higher ups informed of what you are doing.

When we are buying some thing by weight, we will not buy if the moggu or tilt of the balance is on the weight side. We will always expect the tilt to be on the fruit side. Similarly, let us give our organization the benefit of the tilt while rendering our service. Sell one against salary and give one free to the institution. Nothing is a waste. All experiences in life are extremely useful. Every skill, every talent, every experience will certainly come in handy some time or other. Only an event filled life is a fulfilled life.

There is ample scope for improvement every where, including trivial actions. Take the case of turning the page in the attendance register. Do not shear it and crumple it while turning. Lift the page at the edge and gently turn over. Do not underline or mark with pen in the library book. While standing near a wall, do not make a foot print on the wall. Make your indelible foot print in the history of this college.

We the teachers will continuously ask ourselves, "What else can I do for the betterment of the college?" The need of the hour at the college as well as in the country is for people who can think and do some thing useful on their own, instead of waiting for the Head of the Department or for the Management to tell. The need of the hour is for people who feel that it is their job and that they can certainly do some thing more to make the college better.

We are specialists in telling what the other man should do. From now on, each one of us should specialize in finding out what else you and I should do to bring about an improvement, however small it may be. Do not go to your higher authority presenting a problem. Submit a solution too for possible approval. In other words, let your own operating system function to its fullest potential.

There is nothing wrong if you or I can pick up a chocolate wrapper from the ground and deposit it in the dust bin. One need not wait for Sankaramma or Jayamma or Jangamma to do it.

It is natural for each one of us to expect to be treated with dignity. We must have the heart to give to our subordinates and students what we expect from our superiors. If students receive respect and affection from their teachers, they will transform to responsible citizens. It is a large heart that calls a student or even an attendant "Meeru" (Hindi: Aap) instead of "Nuvvu" (thum). We are all equal in the eye of the law and before God. Jai Hind.

With regards and best wishes,
Dr. Palanki Balakrishna

"Live as if you were to die tomorrow. Learn as if you were to live forever"

Mahatma Gandhi (1869-1948)

"You educate a man; you educate a man. You educate a woman; you educate a generation"

- Brigham Young (1801-1877)

A LEAP YEAR NOT IN FOUR BUT TWENTY!!!!



As a matter of fact, a day consists not of 24 hours but 23 hours and 56 minutes.

We advance by 4 minutes every day. So,

In a year $365 \text{ days} \times 4 \text{ minutes} = 24 \text{ hours and } 20 \text{ minutes extra.}$

Actually in a year $365 \text{ days} \times 24 \text{ hours} = 8760 \text{ hours.}$

Therefore, hours a year should consist of $8760 \text{ hrs} - 24 \text{ hrs and } 20 \text{ min.}$

i.e. $8735 \text{ hrs and } 40 \text{ min. OR } 8735.66 \text{ hrs.}$

Therefore, days a year should consist of $8735.66 / 23.93 = 365.05 \text{ days.}$

($23 \text{ hrs \& } 56 \text{ mins} = 23.93 \text{ hrs}$)

i.e. a year consists of 0.05 days more

i.e. $0.05 \text{ days} \times 24 \text{ hrs} = 1.2 \text{ hrs.} = 1 \text{ hr and } 12 \text{ minutes more}$

So, a leap year should come in $24 / 1.2 \text{ hrs} = 20 \text{ years not } 4 \text{ years.}$

(Don't confuse...)

Leap year after 20 years in GPS (Global Positioning System) satellite. The nominal GPS operation consists of 24 satellites that orbit the earth in 12 hrs. The satellite orbit repeats almost the same ground track (as the earth beneath them). Once each day. The orbit altitude is such that the satellites repeat the same track and configuration over any point **approximately** each 24 hrs. (4 mins earlier each day.)

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Role of Professional Society/Activities in Educational Institutes



All educational institutes usually establish various professional societies. Names of various professional societies are Indian Society of Technical Education (ISTE), Institute of Engineers (IE), IEEE, Society of Power Engineers (SPE), Indian Institute of Chemical Engineers (IICHE), American Society of Mechanical Engineers (ASME) etc. These societies may have separate staff and student chapters.

There are many objectives of establishing such societies. The faculties and students both are benefited from the activities of the societies. Every year authority members decide the theme of the current year according to current need of the society, like electrical energy crises, security of online data etc. Now based on suggested theme, various activities are conducted by institutes. These activities may be invited expert lectures, technical events, paper presentation, poster presentation, debate, group discussion, quiz competition, etc. Indirectly these activities increase awareness of young engineers for the current need of the society. The organization of professional society activities may also give following advantages.

1. Students get platform for organizing various technical activities.
2. Students become aware about current need of the society.
3. Students get opportunity to develop new ideas while formulating various technical events.
4. They learn design of technical events along with rules of the event, grading system for winners, budgeting, and managing various tasks of the events.
5. They learn communication and co-ordination with inside faculties and outside guests. They experienced impartial participation & declaration of results.
6. They get opportunity to shoulder responsibility to manage events. Normally, all events are managed by different group of students.
7. They are trained for planning and executing events by teamwork.
8. Participants get opportunity for enhancement of technical knowledge, while they are participating in technical events.
9. Students are technically benefited by invited / guest lectures, paper and poster presentations, and project competitions.
10. They learn many administrative skills to execute events, to manage finance, co-ordination of work, communication and reporting of events.

Of course all activities are organized under the guidance of deputed faculty members, but students get exposure in smooth organization of events.

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Motor Current Signature Analysis and its Applications in Induction Motor Fault Diagnosis



INTRODUCTION :

The Motor Current Signature Analysis (MCSA) is considered the most popular fault detection method now a day because it can easily detect the common machine fault such as turn to turn short circuit, cracked/broken rotor bars, bearing deterioration etc.

Induction motors are a critical component of many industrial processes and are frequently integrated in commercially available equipment and industrial processes. There are many techniques and many commercially available tools to monitor induction motors to insure a high degree of reliability uptime. In spite of these tools, many companies are still faced with unexpected system failures and reduced motor lifetime. The studies of induction motor behavior during abnormal conditions and the possibility to diagnose these conditions have been a challenging topic for many electrical machine researchers.

The major faults of electrical machines can broadly be classified as the following

- Stator faults resulting in the opening or shorting of one or more of a stator phase windings,
- Abnormal connection of the stator windings,
- Broken rotor bar or cracked rotor end rings.
- Static and/or dynamic air-gap irregularities,
- Bent shaft (akin to dynamic eccentricity) which can result in a rub between the rotor and stator, causing serious damage

In recent years, intensive research effort has been focused on the technique of monitoring and diagnosis of electrical machines and can be summarized as follows,

- Time and frequency domain analysis.
- Time domain analysis of the electromagnetic torque and flux phasor.
- Temperature measurement, infrared recognition, radio frequency (RF) emission monitoring,
- Motor current signature analysis (MCSA)
- Detection by space vector angular fluctuation (SVAF)
- Noise and vibration monitoring,
- Acoustic noise measurements,
- Harmonic analysis of motor torque and speed,
- Model, artificial intelligence and neural network based techniques.

Of all the above techniques, MCSA is the best possible option: it is non-intrusive and uses the stator winding as the search coil; It is not affected by the type of load and other asymmetries.

MOTOR CURRENT SIGNATURE ANALYSIS

Motor Current Signature Analysis (MCSA) is a system used for analyzing or trending dynamic, energized systems. Proper analysis of MCSA results assists the technician in identifying:

1. Incoming winding health
2. Stator winding health
3. Rotor Health
4. Air gap static and dynamic eccentricity
5. Coupling health, including direct, belted and geared systems
6. Load issues
7. System load and efficiency
8. Bearing health

There are a number of simple steps that can be used for analysis using MCSA. The steps are as follow:

1. Map out an overview of the system being analyzed.
2. Determine the complaints related to the system in question. For instance, is there reason for analysis due to improper operation of the equipment, etc. and is there other data that can be used in an analysis.
3. Take data.
4. Review data and analyze:
 - ◆ Review the 10 second snapshot of current to view the operation over that time period.
 - ◆ Review low frequency demodulated current to view the condition of the rotor and identify any load-related issues.
 - ◆ Review high frequency demodulated current and voltage in order to determine other faults including electrical and mechanical health.

FAULT DETECTION :

(a) Detection of broken bars :

It is well known that a 3-phase symmetrical stator winding fed from a symmetrical supply with frequency f_1 , will produce a resultant forward rotating magnetic field at synchronous speed and if exact symmetry exists there will be no resultant backward rotating field. Any asymmetry of the supply or stator winding impedances will cause a resultant backward rotating field from the stator winding. When applying the same rotating magnetic field fundamentals to the rotor winding, the first difference compared

to the stator winding is that the frequency of the induced electro-magnetic force and current in the rotor winding is at slip frequency, i.e. $s.f_1$, and not at the supply frequency. The rotor currents in a cage winding produce an effective 3-phase magnetic field with the same number of poles as the stator field but rotating at slip frequency $f_2 = s.f_1$ with respect to the rotating rotor. With a symmetrical cage winding, only a forward rotating field exists. If rotor asymmetry occurs then there will also be a resultant backward rotating field at slip frequency with respect to the forward rotating rotor. As a result, the backward rotating field with respect to the rotor induces an e.m.f. and current in the stator winding at :

$$F_{sb} = f_1(1 - 2s)$$

This is referred to as the lower twice slip frequency sideband due to broken rotor bars.

There is therefore a cyclic variation of current that causes a torque pulsation at twice slip frequency ($2sf_1$) and a corresponding speed oscillation, which is also a function of the drive inertia. This speed oscillation can reduce the magnitude (amps) of the $f_1(1-2s)$ sidebands but an upper sideband current component at $f_1(1+2s)$ is induced in the stator winding due to rotor oscillation. The upper sideband is enhanced by the third time harmonic flux. Broken rotor bars therefore result in current components being induced in the stator winding at frequencies given by

$$F_{sb} = f_1(1 \pm 2s)$$

These are the classical twice slip frequency sidebands due to broken rotor bars.

(b) Detection of air gap eccentricity :

Air-gap eccentricity in electrical machines can occur as static or dynamic eccentricity. Static eccentricity is defined as a stationary minimum air-gap. This can be caused by stator core ovality or incorrect positioning of the rotor or stator at the commissioning stage. At the position of minimum air-gap there is an unbalanced magnetic pull which tries to deflect the rotor thus increasing the amount of air-gap eccentricity. Dynamic eccentricity is defined as a rotating minimum air-gap. It can be caused by a bent shaft, mechanical resonances at critical speeds, or bearing wear. Either can lead to a rub between the rotor and stator causing serious damage to the machine. The effects of air-gap eccentricity produce unique spectral patterns and can be identified in the current spectrum. The analysis is based on the rotating wave approach whereby the magnetic flux waves in the air-gap are taken as the product of permeance and magnetomotive force (MMF) waves.

(c) Detection of shorted turns in LV stator winding :

The objective is to reliably identify current components in the stator winding that are only a function of shorted turns and are not due to any other problem or mechanical drive characteristic. There has been a range of papers published on the analysis of air gap and axial flux signals to detect shorted turns and the detailed mathematics can be found in the references.

(d) Detection of mechanical influences :

Changes in air gap eccentricity results in changes in the air gap flux waveform. With dynamic eccentricity the rotor position can vary and any oscillation in the radial air gap length results in variations in the air gap flux. Consequently this can induce stator current components given by

Where

$$f_e = f_1 \pm mf_r$$

f_1 = supply frequency

f_r = rotational speed frequency of the rotor

$m = 1, 2, 3, \dots$ harmonic number

f_e = current components due to air gap changes

This means that problems such as shaft/coupling misalignment, bearing wear, roller element bearing defects and mechanical problems that result in dynamic rotor disturbances can be potentially detected due to changes in the current spectrum.

(e) Influence of gearboxes :

Mechanical oscillations will give rise to additional current components in the frequency spectrum. Gearboxes may also give rise to current components of frequencies close to or similar to those of broken bar components. Hence, to perform a reliable diagnosis of a rotor winding for motors connected to a gearbox, the influence of gearbox components in the spectrum need be considered. Specifically, slow revolving shafts will give rise to current components around the main supply frequency components as prescribed by equation where the rotational speed frequency of the shaft, rotating with N_r rpm, may be calculated as:

$$f_r = \frac{N_r}{60}$$

Based on the presence of certain frequency components in stator current spectrum, various problems in rotor cage of an Induction motor can be detected by this method.

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Rapid Transit System in India



Rapid Transit System (RTS) consists of Metro and Monorail systems. Kolkata Metro which was operational from 1984 was the first rapid transit system in the country followed by Chennai Mass Rapid Transit system from 1995. Delhi Metro, the third metro is the first modern Metro in India. Rapid Metro Rail Gurgaon is India's first private metro and it will be operational from 2013. India's first monorail will be functional in Mumbai from August 2013. This 19.54 km corridor will be the second largest monorail in the world after Japan's 23.8 km Osaka monorail corridor. This green project is being implemented by Mumbai Metropolitan Region Development Authority (MMRDA) with L & T and a consortium of Malasian infrastructure Scomi Engineering. The project did not use any fossil fuel and in the operational face it is expected about 25% saving in power consumption by using regenerative braking system. The Mumbai Monorail has good facilities like advanced passenger driven communication, CCTV Cameras etc. The total cost of this monorail project has been estimated as Rs 3000 crore.

Metro rail system is planned in all Indian cities having population more than 20 lakh. More metro and monorail projects are under construction / proposed in the country to create world class infrastructure to provide comfortable rail journey. RTS is a cheap mode of transport with low energy consumption. It uses electricity with minimum air pollution and sound pollution, and hence it is eco-friendly. It has additional advantages like preventing accidents, optimal space utilization, comfortable modern coaches, automatic ticketing systems, advanced signaling systems, automatic train protection systems, integrated security systems etc. Additional services like ATMs, food outlets, stores etc will be available at stations. In the next few years we can see the difference in our journey if the metros and monorails under construction / proposed in Mumbai, Bengaluru, Hyderabad, Chennai, Jaipur, Kochi, Pune, Chandigarh, Ahmedabad, Kanpur, Ludhiana, Bhopal, Indore and Faridabad are completed as per the plan along with the existing metro systems in Kolkata, Chennai and Delhi.

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Religion is Godly Life



No religion of the world is without any connection with God. The principal religions of the world are 1. Hinduism, 2. Islam, 3. Buddhism and 4. Christianity. And all of them have some sort of direct or indirect connection with God. Such religions are made and propagated by God Himself or by His authorized agents. So far Hinduism is concerned and the Bhagavad-gita is accepted, all sects and subsects of the Hindu population take up the cause of the Bhagavad-gita and it is directly preached by God Himself in the Form of Lord Krishna. So far Islam is concerned and the Koran is accepted, all Islamic population accept Hazrat Mohammad as the authorized agent of God and the faith is propagated by Him.

So far Buddhism is concerned, all the people of the world professing faith in Buddhism obey Lord Buddha as God or the greatest authority. Lord Buddha advented Himself in India and He took up the cause of the poor animals who were being slaughtered unhesitatingly on the plea of Vaidic yagya and therefore Lord Buddha was compelled to disregard the principles of Vedic sacrifice just to establish the principles of nonviolence. The Hindu scriptures especially the Vedas accept Lord Buddha as the incarnation of God. It is said that He preached His philosophy amongst those who had practically no faith in the existence of God but by His propaganda such men become faithful to Him and therefore indirectly they accepted God. So far Christianity is concerned; there is open acceptance of God because Lord Jesus declared Himself as the son of God. So all the religions of the world have direct or indirect connection with God and therefore we can take it for acceptance that religion means to learn obedience to the Laws of God as it may be compared with Nationalism means obedience to the laws of the state.

Obedience is the first law of discipline. Even in your national life, you may be a member of a great independent nation but that does not mean you have absolute independence and you are able to do anything and everything at your will without the sanction of the state. Similarly in terms of our wider and universal relation we may be all independent individual living beings but our independence is not absolute and we have to depend mostly on the laws of God and in every step of our life we cannot do anything without the sanction of God. There are five causes to effect a definite thing may be good or bad. The first cause is the place where the action has to take place, the second cause is actor or the man who will do the act, the third cause is the instrument by which the action has to be executed, the fourth cause is the endeavor which pushes the actor to do it and above all there is the fifth cause namely God's will and that is the ultimate sanction. However may the other four causes be efficient, if the fifth cause is not favorable the effect cannot take place and therefore in every action the hand of God is there we may or may not appreciate it.

The conception of God in every religion is either personal or impersonal. But those who are expert in the science of God have said that God is both personal and impersonal and not He is personal and impersonal but also He is localized. At the ultimate issue God is personal. Impersonal feature of God is the manifestation of His all-pervasiveness and localized function of God is His representation. The king of a state or nowadays the president of a state is always a personal affair. The supreme executive head of a state cannot be impersonal and there is no such example anywhere. The impersonal feature of the king or the president is His all pervasive power in the form of government and the localized representation of the king are executive officers who carry on the orders of the king for maintenance of the state law and order. Similarly, the ultimate authority is God in person and the form of His government through various agencies are His impersonal form and the different representatives for executing the function of God's government are different demigods. According to Hindu conception the actual head of a state, be he the president or the King in person is the representative of God. Therefore the conception of God in all religion is to accept one Ultimate Truth from where everything emanates never mind personal or impersonal.

Hare Krishna!

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Performance Appraisal



Clarification and Acknowledgement : The original source of this short story is unknown to me. It might be through internet or heard from someone. I don't have even a soft copy of the same. But I thought to share the same with my colleagues and students. So I am penning it down from my memory with my own wordings. The important part is not the exact literature treatment but the message it carries. And I hope I will be able to convey the same. With my due and sincere acknowledgement to anonymous author of this story, I am presenting the same for the benefit of all of you.

“Can I talk to Mr. Mehta?” A shabby looking teenage boy asked a person on other side of the phone from a public phone available just besides a shop. The conversation then started and the shop owner who was seating idle just started focusing on the conversation.

“Ok sir, but I assure you that I will not give you any chance of complaints.” It seemed the boy was urging for some favor or recommendation or work from Mr. Mehta, the person on other side of the phone. The shop owner started taking interest in the conversation. The boy paused for a while and urged again, “ Sir, apart from cleaning the home, I will also clean the utensils.”

On getting some reply from other side he again begged “But sir, I will also do some marketing for you. Please give me a chance, there won't be any complaints regarding my work and sincerity.”

After lot of persuasion and pleading the boy ultimately gave up and put the phone down. The shop owner who was listening to this conversation very attentively experienced some sympathetic feeling for the boy. He thought let me give some work to him since he is in need and trying so hard for the same over phone.

The shop owner was about to talk to that boy but to his surprise, the boy was smiling gently and was about to leave the place. The shop owner shocked. He called the boy and asked rubbing his eyebrows, “You were trying so hard to get the job and now when you did not get the favorable answer, why you are smiling?”

“I got the answer what I wanted!!!” replied the boy in satisfying tone.

“How? I don't understand.” The reaction from shop owner was quite obvious.

“Ok, leave this, if you need a job, meet me tomorrow, I will try something for you.” After some silence the shop owner extended his help to the boy in a bit autocratic way.

“Thank you sir, but I already have a job!!!” the boy replied politely.

“Then why you were begging on phone so desperately?” Second tremor came on the face of shop owner, of the larger magnitude then the previous one.

“I was just checking my performance.” The boy replied with same politeness.

“What? How???”

“I am working at the person to whom I was talking to.”

“Then why this drama?”

“I was trying to figure out whether he is satisfied with me or not? I approached him as a stranger over phone and tried very hard to convince him that I will perform better then the boy who is currently working with him”

“So?????” the shop owner was still under deep surprise.

“All my arguments were answered by only one statement - **I am fully satisfied with the boy working with me.**”

The boy said with a feeling of achievements and satisfaction and walked away leaving the shop owner alone to recover from the shock.

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Some Mathematical Equations that Changed the World



Equations are the lifeblood of mathematics. Without them our world would not exist in its present form. Equations have played a vital role in creating today's world, from mapmaking to satellite navigation, from music to television, from discovering America to exploring the moons of Jupiter.

There are two kinds of equations in mathematics. One kind presents relations between various mathematical quantities: the task is to prove the equation is true. The other kind provides information about an unknown quantity, and the mathematician's task is to solve it to make the unknown known.

Equations in pure mathematics are generally of the first kind : they reveal deep and beautiful patterns and regularities. Pythagoras's Theorem, which is an equation expressed in the language of geometry, is an example. If we accept Euclid's basic assumptions about geometry, then Pythagoras' Theorem is true.

Equations in applied mathematics and mathematical physics are usually of the second kind. They encode information about the real world. Newton's Law of gravitation is a good example. It tells us how the attractive force between two bodies depends on their masses, and how far apart they are. Let us see the game changer equations.

- (1) Pythagoras Theorem is a relation in Euclidean geometry among the three sides of a right triangle $a^2 + b^2 = c^2$ where c represents the length of hypotenuse and a and b represents the lengths of other two sides.
- (2) Logarithm : $\log_b(xy) = \log_b(x) + \log_b(y)$
- (3) The fundamental theorem of calculus is a theorem that links the concept of the derivative of a function with the concept of the integral. If $f(x)$ is a continuous function and $f(x) = \int_a^x f(t)dt$, then $F'(x) = f(x)$
- (4) Newton's law of gravity calculates the force of gravity between two objects. $F = G \frac{m_1 m_2}{r^2}$ where force between the masses, G is the gravitational constant, m_1 is the first mass, m_2 is the second mass and r is the distance between the centers of the masses. This law applies to astronomy helped discover Pluto. It uses in space exploration and putting satellites in orbit.
- (5) In mathematics, imaginary number allows the real number system \mathbf{R} to be extended to the complex number system \mathbf{C} . The imaginary number i is defined by the property that its square is -1 i.e. $i^2 = -1$.
- (6) Euler's formula for Polyhedral : $V + F - E = 2$ where V number of vertices, F number of faces, E number of edges. It led to the development of topography used in 3D mapping and by biologists to understand DNA.
- (7) Normal Distribution: In probability theory, the normal distribution is a continuous probability distribution, defined by the formula $f(x) = \frac{1}{\sigma\sqrt{2\pi}} e^{-\frac{(x-\mu)^2}{2\sigma^2}}$

Many naturally occurring random processes tend to have a distribution that is approximately normal.

- (8) For any real X , Euler's formula is $e^{ix} = \cos x + i \sin x$. It is ubiquitous in mathematics, physics, and engineering. The physicist Richard Feynman called the equation "our jewel" and "one of the most remarkable, almost astounding, formulas in all of mathematics. In electronics engineering and other fields, signals that vary periodically over time are often described as a combination of sine and cosine functions (see Fourier analysis), and these are more conveniently expressed as the real part of exponential functions with imaginary exponents, using Euler's formula. Also, phasor analysis of circuits can include Euler's formula to represent the impedance of a capacitor or an inductor.
- (9) Wave equation $\frac{\partial^2 u}{\partial t^2} = c^2 \nabla^2 u$ is an important second-order linear partial differential equation for the description of waves as they occur in physics such as sound waves, light waves and water waves. It arises in fields like acoustics, electromagnetic, and fluid dynamics.
- (10) The Fourier transform, named after Joseph Fourier, is a mathematical transform with many applications

in physics and engineering. $f(\xi) = \int_{-\infty}^{\infty} f(x)e^{-2\pi i x \xi} dx$. Applications in Image processing, Image filtering, signal analysis, Sound filtering, data compression.

Here we discuss four more in little detail:

(1) Mass Energy Equivalence (Theory of Relativity)

Albert Einstein proposed mass energy equivalence in 1905. The equivalence is described by the famous equation:

$$E = mc^2$$

where E is energy, m is mass, and c is the velocity of light.

This equation shows mass and energy are interchangeable and explains behavior of object at very high speeds.

Application: In the process of fission and nuclear fusion. It introduces the idea of time dialation and helped lead to nuclear weapons.

(2) Schrödinger equation

In quantum mechanics, the Schrödinger equation is a partial differential equation that describes how the quantum state of some physical system changes with time. It was formulated in late 1925 by the physicist Erwin Schrödinger. It models matter as a wave rather than a particle.

$$i\hbar \frac{\partial}{\partial t} \psi = \hat{H} \psi$$

where ψ is the wave function of the quantum system, i is the imaginary unit, \hbar is the reduced Planck constant and \hat{H} is the Hamiltonian operator, which characterizes the total energy of any given wave function and takes different forms depending on the situation.

Application: Revolutionized modern computers via semiconductors and transistors.

(3) Second Law of Thermodynamics

The second law of thermodynamics is considered to be the most fundamental law of science. It states that the entropy of an isolated system never decreases, because isolated systems spontaneously evolve towards thermodynamic equilibrium the state of maximum entropy. Equivalently, perpetual motion machines of the second kind are impossible. The first formulation of this law is credited to the French scientist Sadi Carnot in 1824.

A change in the entropy (dS) of a system is the infinitesimal transfer of heat (δQ) to a closed system driving a reversible process, divided by the equilibrium temperature (T) of the system

$$dS = \frac{\delta Q}{T}$$

Application: It explains not only the working of engines, refrigerators and other equipments used in our daily life, but also highly advanced theories like big bang, expansion of universe, heat death etc.

(4) Maxwell's Equations

Maxwell's equations are a set of partial differential equations that, together with the Lorentz force law, form the foundation of classical electrodynamics, classical optics, and electric circuits. These fields in turn underlie modern electrical and communications technologies. Maxwell's equations describe how electric and magnetic fields are generated and altered by each other and by charges and currents. They are named after the Scottish physicist and mathematician James Clerk Maxwell who published an early form of those equations between 1861 and 1862.

$$\begin{aligned} \nabla \times E &= - \frac{\partial B}{\partial t} \\ \nabla \times H &= j + \frac{\partial D}{\partial t} \\ \nabla \cdot D &= \rho \\ \nabla \cdot B &= 0 \end{aligned}$$

The first is Faraday's law of induction; the second is Ampere's law as amended by Maxwell to include the displacement current $\frac{\partial D}{\partial t}$. the third and fourth are Gauss' laws for the electric and magnetic fields. The quantities E and B are the electric and magnetic field intensities, the quantities D and H are electric and magnetic flux densities, the quantities ρ and j are the volume charge density and electric current density of any external charges.

Application: Prediction and understanding of electromagnetic waves used in radar, TV and modern communications.

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Best of Ourselves



Nowadays we are coming across new technologies, revision of some of the fundamental facts, new achievements of science and engineering etc. People around the globe are trying to investigate something and surprise the world with what they learned and achieved. Of course the knowledge relating to material world and its applied domain is endless. Along with this, we also need to learn lot many other things related to our own inner world. And the beginning of the same starts with identifying some of the facets of our life belonging to what we know and how we act. In my view, some of the steps in the journey of self development are “Getting honest with self for what we believe”, “Achieving rational and honest view in our belief and work” and “Putting best of our selves for what we are “. Along with technical education, we also must be committed to bring these ideals in our life and transform the same in students as a part of life oriented education.

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અનુતર પ્રશ્નો



પહેલાં મરઘી કે પહેલાં ઈંદુ? આપણે સૌ જાણીએ છીએ કે આ પ્રશ્નનો જવાબ વિજ્ઞાન નથી આપી શક્યું. અનુમાનો આધારિત કંઈક સિદ્ધાંત તારવવાની કોશિશ જરૂર કરી છે. વધુ આગળ વિચારતા એવું લાગે છે કે એવા ખરેખર તો ઘણા પ્રશ્નો છે કે જેના જવાબો કદાચ સમગ્ર માનવજાત પાસે નહિ હોય. અહીં કેટલાક એવા પ્રશ્નોની ચર્ચા કરવામાં આવી છે. આ પ્રશ્નોનો અભ્યાસ કરવાથી આપણું અજ્ઞાન છતું થશે જે આપણને જ્ઞાનના અહંથી મુક્ત રાખવામાં પણ મદદ કરશે. જો એ સ્પષ્ટતા કરી દેવી જરૂરી છે કે સંભવ છે કે અમુક પ્રશ્નોના જવાબો વિજ્ઞાને શોધેલા હોય અને હું ન જાણતો હોઉં. પ્રશ્નોના ઉત્તર શોધવા કરતાં પણ વધુ મહત્વનું એ સમજવું છે કે આપણે રોજ જે ક્રિયાઓ કરીએ છીએ તેના વિષે આપણે કેટલા બધા અજાગ્રત છીએ! આપણું જીવન કેટલું બધું યાંત્રિક બની ગયું છે!

દિનચર્યા : આપણે દિવસ દરમિયાન ઘણી ક્રિયાઓ કરીએ છીએ, જેમ કે માથું ઓળવું, નહાવું, જમવું વગેરે... પ્રશ્ન એ થાય કે સૌથી પહેલાં માથું ઓળવાનો વિચાર કોને આવ્યો હશે અર્થાત માનવજાતને માથું ઓળતાં કોણે શીખડાવ્યું હશે? ભોજનની વાત કરીએ તો આપણે ગુજરાતીઓ રોજ દાળભાત, શાક, રોટલી ખાઈએ છીએ. પણ પ્રશ્ન એવો થાય કે સૌથી પહેલી રોટલી કોણે બનાવી હશે? તેવા જ પ્રશ્નો દાળભાત અને શાક માટે પણ પૂછી શકાય અને તે જ રીતે અન્ય બધી જ વાનગીઓ વિષે વિચારી શકાય. આ જ રીતે અન્ય બધી જ ક્રિયાઓ વિષે પણ પ્રશ્નો પૂછી શકાય.

મગજ : માણસનું વર્તન વિચારો અને લાગણીઓથી પ્રેરિત હોય છે. આવેગો અને આવેશોને હું લાગણીના પ્રકારો તરીકે ગણી લઉં છું. મનોવૈજ્ઞાનિકો આ બાબતમાં ઘણું જાણતા હશે. મગજની બાબતમાં તો ઘણા પ્રશ્નો પૂછી શકાય. દા.ત. આપણે જાણીએ છીએ કે કમ્પ્યુટરની મેમરીમાં ડેટા અને ઈમેજ કઈ રીતે લખાય છે. પ્રશ્ન એ થાય કે મગજમાં કયા સ્વરૂપે માહિતીઓ સંગ્રહિત થાય છે? મગજમાં વિચારો કઈ રીતે ઉત્પન્ન થાય છે? આપણને અમુક વસ્તુ કે વ્યક્તિ ગમે છે અને અમુક નથી ગમતી. આપણે એનાં તાર્કિક કારણો નથી આપી શકતા. દા.ત. મને અમુક - તમુક ફૂલ ગમે છે અને બીજું કોઈક ફૂલ નથી ગમતું. પ્રશ્ન એ થાય કે મગજમાં એવું શું છે જે આના માટે જવાબદાર છે? આપણને કોઈની પ્રત્યે લાગણી ઉત્પન્ન થાય છે ત્યારે મગજમાં ખરેખર શું ક્રિયા થાય છે?

ભાષા : ભાષા કઈ રીતે ઉત્પન્ન થઈ હશે? ‘ભૂમિતિ’ શબ્દની વ્યુત્પત્તિ વિચારીએ તો ‘ભૂ’ એટલે જમીન અને ‘મિતિ’ એટલે માપન. છતાં એ પ્રશ્ન તો ઊભો જ રહે કે પ્રાચીન લોકોએ જમીન માટે ‘ભૂ’ શબ્દ જ કેમ પસંદ કર્યો? તેવી જ રીતે માપન માટે ‘મિતિ’ શબ્દ જ કેમ પસંદ કર્યો? આવું

- પ્રા. રાજેશ સંઘવી

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Science & Spirituality



Both science and spirituality are the search for truth. One is the search for the truths of the physical world; the other the search for the truth of the nature of consciousness. As such there is no conflict between them.

For the same reason, there is currently little meeting between the two either. The current scientific paradigm does not include consciousness or mind as a fundamental reality, but seeks to explain everything in physical terms. Western science has now looked out to the edges of the Universe, back in time to the beginning of creation, and down into the sub-atomic structure of matter; and it finds no place, nor need, for God. But this is because it has not yet included the inner realm of mind in its scope. When science explores mind as fully as it has explored space, time and matter, it will create a new worldview,, one that includes spirituality.

Spirituality, on the other hand, is often very unscientific in its approach to self-liberation. People believe things simply because someone has said it or written it. But this is hardly the best way to arrive at truth. The Buddha warned against this 2,500 years ago when he said "Do not believe anything because I have told you it is so. Only believe it when you have tested it for yourself." In this respect spiritual growth can, and should, be very scientific. We can form a hypothesis -- that certain meditation practices enhance awareness, for example -- set up a personal experiment in meditation practice, and see what the results are. This is important not only to make sure that we do not deceive ourselves, but also to ensure that our spiritual progress is as rapid as possible. And rapid spiritual growth is something the world today needs very badly.

I do have a million dollar question. Define God in line. Can You??? We will get lacks of answers. If we go through different religious book, we will get a unique answer. The answer is GOD is everywhere. God is someone who is present in all of us; in fact GOD is available in each and every physical particle of the universe. Some say GOD is male and some say GOD is female. Some say GOD can be seen and some say it cannot be. Taking generalized definition of GOD in terms of spirituality is: 'GOD can neither be created nor be destroyed, because GOD himself is the creator and destroyer'. In a nut shell spirituality would lead us toward GOD, toward truth and yes of course beyond this physical world.

Looking at science and technology, the major focus would be on 'Energy'. For scientists energy is a very important thing and for saints soul is important. Definition of soul according to Shreemad Bhagavad Gita is: 'Soul can neither be created nor can be destroyed; it can only be transferred from one form into another'. Science gives definition of Energy in this fashion: "Energy can neither be created nor can be destroyed just can be transferred from one form to another".

From above mentioned two laws it is proved that soul and energy both cannot be induced, also both cannot be destroyed. It means without these two things world does not exist. One can say that they are immortal. Spirituality says, except soul nobody is immortal and according to science only energy is immortal.

I would say that neither science nor spirituality is incorrect. If both are correct then we should accept that "SOUL = ENERGY".

It means that "SUPREME SOUL = SUPREME ENERGY = GOD".

Priyam Parikh
PG/MC 1st

Lost World



We all fear of death despite knowing the fact that it is the only thing that's cent percent truth. We all run from that but for few it's the ultimate thing for getting peace and freedom from life that is worse than hell. Few instances I want to share with you. Mind you all these are related to a woman.

There was this girl who wanted to be free and believed that all was good until a mishap occurred whose wound is still afresh in many hearts. Yes friends this is about the same Delhi-girl who was named Nirbhaya by TOI. She underwent many pains until she lost it. A girl with similar pain in recent edition of TOI told that Nirbhaya's death was better for herself as she was not followed by disturbing questions that one raped girl had to pass through.

Another excerpt comes from Hyderabad where a bomb blast took place. A middle aged woman lost her life in bomb blast. When investigated it was found that she was left by her husband and just had shifted to the town in search for some earnings. She was living with her 2 yrs old child in one of the rooms of ashram. That day she went to buy a milk powder for her child and she felt prey to terrorists. She was holding few notes when searched out. Her child was crying and roaming around her without having the knowledge what had happened.

This one reveals the failure of a true love. A excerpt from one of the magazine. A girl fell in love for a guy. Like most of love birds they used to talk, roam, text each other and so on. She was crazy about him and never imagined to live without him. That guy wasn't having good characteristics and was having relations with other girls too. Girl's brother came to know about this and warned her sister about this. He also went on to abuse her love. Slowly her parents too started keeping watch on her. She didn't like this. One day her love asked her to end their life. She accepted and drank poison with him. But the effect held on to her only as he had cheated on her. He had not had that poison but some else fluid. He had done all this to take revenge of abusing done by her brother. The girl is in coma.

Like this there are innumerable instances which show such shameless happenings. All this happened to those who were innocent, who did everything right. Sometimes it makes us feel that why this happens to these people.

Sometimes life is too painful. Few lines from one of the flicks:

BOMB SE ZYADA ZAKHAM TO ZINDAGI DETI HAI, HAR MOD PAR KOI DHOKA, KOI DARD, TO JAB HUM ZINDAGI KE KHATRON SE BACHNE KE LIYE KOI BOMB SUIT NAHI PEHNTE TO MAUT SE BACHNE KE LIYE KYA PEHANNA.

ZINDAGI TO HAR ROZ JAAN LETI HAI MAUT TO SIRF EK BAAR LEGI...

Friends this article just shows the pain of few victims who suffered not due to God but because of us, the so called humans. Today it's not like that

WOHI HOTA HAI JO MANZOOR- E- KHUDA HOTA HAI,

it's WOHI HOTA HAI JO MANZOOR- E- INSAAN HOTA HAI.

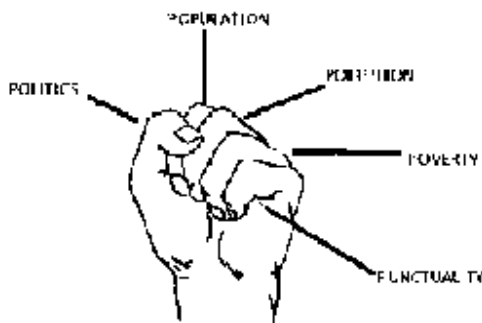
Vikas Bharat Bhushan Singh,
PG/ME 2nd

The 5-P's : the Obstacles for the Vision of INDIA 2020



1. Population (INDEX FINGER): I don't think I have much to say about this.. We all are aware where we are standing in terms of population... We can't stop of letting our country grow in terms of population but we can at least decrease the rate of growth if we know what will happen if this continues...
2. Pollution (MIDDLE FINGER): Why still we are counted in those countries in which tourists don't want to come just because we are having so much pollution... And this pollution is not created by them who came here but else it is us who have made others feel to see our land like this and what are we doing, standing in their back and using words against them or using foul languages just to show how good we are in our point of view... **WRONG!!!**
3. Poverty (RING FINGER): Though the poverty line has shown some improvement in the last few years but it has not shown as much that we should feel proud about it... Stats say that we are still lagging behind in terms of poverty... Why still the value of INDIAN RUPEES is falling down and down... Gold, Petrol, Food Items are growing high and high...
4. Punctuality (LITTLE FINGER): I have used this term to represent the restrictions which are there on us... like, still in some of the states ladies are forced not to leave the home during night time... which should not be happening... They should feel safe and secure whenever they leave their house...
5. POLITICS (THUMB): I have made bold all the letters just to draw all of your attention that they are the main culprits who are controlling all these above mentioned things...
 - They should make people aware about the population like the Chinese government had done...
 - We have to learn like some of the small countries like Singapore, Malaysia and Thailand regarding how to make your country clean and systematic...
 - Government has to take some measures and actions to control poverty and help INDIA to shine... The law should be straight forward, decision should be taken quick and wisely, there should be no pending cases... by this, we will create a place where each and every person will free to move anywhere, anytime...

I have represented all the terms with the fingers in the hand just to show how politics is controlling all of these things just like a palm does when it becomes a fist...



Gaurang Talati
PG/IT

Out of the Closet



Elements of Electrical, Mechanical and Civil Engineering are not remotely as tough as leaving Ahmedabad for college, that's what I have learnt in the past month away from home. A month, which felt like a year; a month involving adventure, drama, friendship, bonding and a bit of learning !

The idea of getting away from the restrictions at home for the freedom of hostel life at first seemed exciting and unmatched by any other joyous moment. It is after I found myself completely alone and lacking a supportive and guiding hand that I realized just how much I've taken everybody and everything in my life for granted. All our lives, friends change, but there is a common factor that is always right by us, no matter what - Parents. The fact that they accept us for what we choose to do, how we behave and give us a fresh start for every mistake we make is simply amazing. It is after I came out of the warmth of home that I found there is no fresh start in the real world. One small blunder in this competitive world can take you back for years. "No matter what you do, we'll always love you." are the words that echo in one's ears all the time, yet one yearns to hear them from the right people.

To add to the misery, hostel life has its own setbacks. There's no TV, no internet, no newspaper - no connection with external world except for mobile phones. Playing loud music and fighting for fun is what the students sometimes do for recreation and entertainment, but that piece of fun is also taken away from us by Rules and Regulations put up by Hostel Authorities. The agony of staying away from home was eclipsed on my first night by a superbly entertaining war of words between 6 students in my adjacent room. Also, the most happening place in Vallabh Vidyanagar is 2 kms away from the hostel and college, which makes it all the more difficult to enjoy life.

But there's one more thing my experience away from home has taught me - "There's no problem without a solution." I should thank my stars as I have a few people back from Ahmedabad whom I can talk to when I feel like, and above all that, I've got great roommates, brilliant classmates and endearing seniors. Before I could feel lazy and without anything to do, I learnt GCET offers a wide range of Cultural, Social and Sports activities and clubs that we can indulge into in order to make us forget our troubles.

To give a family - like touch and support, there are various counselors and anti-ragging squad members to help us out when we're stuck in academic or personal matters. Come to think of it, if one has good friends and some activity to carry out or hobby to pursue in Free-time, and if that's all one cares about, one doesn't need a big city to live or even good facilities to utilize because one's life is already wonderful !

Maharshi Thakker
1st EC

It's really amazing

- (1) Another good news is that in the Desert of Thar a deposit of Oil and Natural gas has been found.. This store is what Kuwait has in its stomach.
India can go with this ONGC energy reserve for another 30 years. And moreover it can export it to other counties. It's incredible!!! But true.
- (2) An Indian boy in his 12th standard has disproved Einstein's 'Theory of Relativity'. Shocked? Read on...
- Sudarshan Reddy has theoretically proven the existence of a sub-atomic particle, which can travel at speed greater than that of light, thereby challenging one of the fundamental postulates of the 'Theory of Relativity'.
- In his recent research paper submitted to the Institute of Advanced Physics (IAP) at Trieste (Italy), Sudarshan has proved the existence of a class of sub-atomic particles called leptons', which can travel faster than light.
- The international physics community is shocked by this discovery.
- Dr.Massimo Martelli, President of the IAP has this to say about the paper submitted by Sudarshan. 'After long, careful and critical analysis, I can confidently say that Sudarshan's research papers show tremendous leap in our understanding of physics. His investigation mounts up on 'leptons'... His work builds substantially on the work of Einstein and others in the field of relativity.'
- When physicists from Princeton University tried to measure Sudarshan's IQ with an IQ-meter (at the American Embassy in Delhi), the meter broke down.
- Sudarshan, incidentally, is the brother of Madhu Reddy, the Indian whiz kid who developed an operating system superior to Microsoft Windows.
- We should all be very proud of these boys.

Fernandes Vikash P.
3rd CH

Study of Foreign Direct Investment (FDI)

In order to put country's economy back on the growth path, the UPA government on 14th September, 2012 permitted the FDI in the country. This includes allowing 51 % foreign direct investment (FDI) in multi branded retail, 100% in single brand retail and 49% in civil aviation. This decision is very important from ruling government point of view, but oppositions have raised many questions about this. There may be following mentioned benefits and disadvantages for allowing the FDI.

Advantages:

- ❖ About 35-40 % fruits and vegetables and 10% food grains are wasted due to lack of cold storage facility. This loss can be reduced.
- ❖ FDI companies purchase direct from farmers, and hence farmers will get higher rate of fruits and vegetables.
- ❖ Government permits direct investment in banking, infrastructure, cold storage, ware houses, packaging, etc. This will give benefit to Indian business sector.
- ❖ 30% material for this development will be purchased from our country, hence developing our small scale industries.
- ❖ Healthy competition between FDI companies and local companies. Due to healthy competition customers will get food and grains at low price.
- ❖ Farmers will be motivated and inspired for growing more and more as they will get more money.
- ❖ Government will get more income in the form of taxes.

Disadvantages:

- ❖ Indian market is made from different stages and big network hence, it may reduce employment.
- ❖ FDI companies may purchase foods from farmers at low price and sell at higher rate in Indian market.

Vijay Kedaria,
PG/ME

What is the purpose of Desire?



Desire causes attachment; attachment to this world. And, when you don't get what you want or get what you don't want, it leads to suffering. This leads to anger. And that leads to violence and wars. So, desire results in destruction.

But the Rig Veda, one of our main sources of Philosophy says that in the beginning of time, there was nothing except darkness and a primordial flood.

Then out of this darkness, desire was born. Desire was the primal seed, the germ of creation. And from here whole Universe and everything in it was created. So, in a sense, desire is the root of creation as well. How can desire be the source of creation as well as destruction?

Is it possible to destroy anything that hasn't been created? - No

Is it safe to assume that anything, that has been created, has to be destroyed at some point in time? Yes

That is indeed the purpose of desire. It is for creation and destruction. It is the beginning and the end of a journey.

Source: The Secret of the Nagas.

Jainish D Shukla
3rd MC

Test for Idiocy

Below are five (5) questions and a bonus question. You have to answer them instantly. You can't take your time, answer all of them immediately. OK? Ready? GO!!!

---: ANALYSIS : ---

Majority 80% people have not given correct answers to any of the following questions and 15% people have given the correct answers to 2 questions & only 5% of people have given all correct answers.

----: QUESTIONS :----

Q1 : You are participating in a race. You overtake the second person. What position are you in?

Q2 : If you overtake the last person, then you are...?

Q3 : NOTE: Very tricky arithmetic! Note: This must be done in your head only.

Do NOT use paper and pencil or a calculator. Try it.

Take 1000 and add 40 to it. Now add another 1000. Now add 30.

Add another 1000. Now add 20. Now add another 1000

Now add 10. What is the total?

Q4 : Mary's father has five daughters: 1. Nana, 2. Nene, 3. Nini, 4. Nono. What is the! Name of the fifth daughter?

Q5 : (Bonus Question)

A mute person goes into a shop and wants to buy a toothbrush. By imitating the action of brushing his teeth he successfully expresses himself to the shopkeeper and the purchase is done.

Next, a blind man comes into the shop who wants to buy a pair of sunglasses; how does HE indicate what he wants?

--See Answer at the End

----- ANSWER -----

Answer of First Question :

If you answered that you are first, and then you are

Absolutely! Wrong! If you overtake the second person, you take his place, "so you are second"!

Answer Second Question :

If you answered that you are second to last, then you are wrong again. Tell me, "how can you overtake the LAST Person?"

Answer Third Question :

Did you get 5000?

The correct answer is actually 4100.

Answer Fourth Question :

Did you Answer Nunu?

NO! Of course it isn't.

"Her name is Mary."

Answer Fifth Question (Bonus Question) :

"He just has to open his mouth and ask..."

It's really very simple.... Like you!



Akash N. Patel,
2nd IT

Computer & Network Security Awareness

❖ We should know that the following are ten of the biggest network threats:

- ▶ 1. “Viruses and Worms”,
- ▶ 2. “Trojan Horses”,
- ▶ 3. “SPAM”,
- ▶ 4. “Phishing”,
- ▶ 5. “Packet Sniffers”,
- ▶ 6. “Maliciously Coded Websites”,
- ▶ 7. “Password Attacks”,
- ▶ 8. “Hardware Loss and Residual Data Fragments”,
- ▶ 9. “Shared Computers”,
- ▶ 10. “Zombie Computers and Botnets”

1. Viruses and Worms

- ▶ A Virus is a “program or piece of code that is loaded onto your computer without your knowledge and runs against your wishes.
- ▶ Viruses can cause a huge amount of damage to computers.
- ▶ An example of a virus would be if you opened an email and a malicious piece of code was downloaded onto your computer causing your computer to freeze.

2. Trojan Horses

- ▶ A Trojan Horse is “a program in which malicious or harmful code is contained inside apparently harmless programming or data in such a way that it can get control and do its chosen form of damage, such as ruining the file allocation table on your hard disk.
- ▶ In a network if a Trojan Horse is installed on a computer and tampers with the file allocation table it could cause a massive amount of damage to all computers of that network.
- ▶ Solution: Security suites, such as Norton Internet Security, will prevent you from downloading Trojan Horses.

3. SPAM

- ▶ SPAM is “flooding the Internet with many copies of the same message, in an attempt to force the message on people who would not otherwise choose to receive it.”
- ▶ I believe that SPAM wouldn't be the biggest risk to a network because even though it may get annoying and plentiful it still doesn't destroy any physical elements of the network.
- ▶ Solution: SPAM filters are an effective way to stop SPAM, these filters come with most of the e-mail providers online. Also you can buy a variety of SPAM filters that work effectively.

4. Phishing

- ▶ In my opinion phishing is one of the worst security threats over a network because a lot of people that use computers linked up to a network are amateurs and would be very vulnerable to giving out information that could cause situations such as theft of money or identity theft.
- ▶ Solution: Similar to SPAM use Phishing filters to filter out this unwanted mail and to prevent threat.

5. Packet Sniffers

- ▶ “A packet sniffer is a device or program that allows eavesdropping on traffic travelling between networked computers. The packet sniffer will capture data that is addressed to other machines, saving it for later analysis.”

- ▶ In a network a packet sniffer can filter out personal information and this can lead to areas such as identity theft so this is a major security threat to a network.
- ▶ Solution: “When strong encryption is used, all packets are unreadable to any the destination address, making packet sniffers useless.”

6. Maliciously Coded Websites

- ▶ Some websites across the net contain code that is malicious.
- ▶ Malicious code is “Programming code that is capable of causing harm to availability, integrity of code or data, or confidentiality in a computer system...”
- ▶ AVG report that “300,000 infected sites appear per day .
- ▶ Solution: Using a security suite, such as AVG, can detect infected sites and try to prevent the user from entering the site.

7. Password Attacks

- ▶ Password attacks are attacks by hackers that are able to determine passwords or find passwords to different protected electronic areas.
- ▶ Many systems on a network are password protected and hence it would be easy for a hacker to hack into the systems and steal data.
- ▶ Solution: At present there is no software that prevents password attacks.

8. Hardware Loss and Residual Data Fragments

- ▶ Hardware loss and residual data fragments are a growing worry for companies, governments etc.
- ▶ This is a growing concern and as of present the only solution is to keep data and hardware under strict surveillance.

9. Shared Computers

- ▶ Shared computers are always a threat.
- ▶ Shared computers involve sharing a computer with one or more people.

The following are a series of tips to follow when sharing computers: “Do not check the “Remember my ID on this computer” box ... Never leave a computer unattended while signed-in ... Always sign out completely ... Clear the browsers cache ... Keep an eye out for “shoulder surfers” ... Avoid confidential transactions ... Be wary of spyware ... Never save passwords ... Change your password often

10. Zombie Computers and Botnets

- ▶ A botnet “is a number of Internet computers that, although their owners are unaware of it, have been set up to forward transmissions (including spam or viruses) to other computers on the internet. (SearchSecurity.com [16], 2004)”.
- ▶ This is a major security threat on a network because the network, unknown to anyone, could be acting as a hub that forwards malicious files etc to other computers.

Conclusion

- ▶ There are still threats such as password attacks that have no prevention.
- ▶ Many of the threats set out to get personal information.

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Dhruval Patel
1st CH



When I was searching Google Play for small business apps I came across an app built from appsbar that appealed to me. I work in the local teacher's credit union and we were looking for app ideas to help service our customers. The Kennedy EFCU app, an app built from appsbar and its DIY app builder had the look and feel we were hoping to attain so I investigated further.

What a surprise to find out that this was a free app builder. There other many advantages to the process and the deeper I looked in to this app built from appsbar the more positive I was about our chances to develop a first rate app.

This particular app was developed to help the credit union upgrade its services for members and to make interactions with the credit union quicker and more customer friendly. The app scores well for design and functionality.

The credit union uses the app to keep members up to date on important events such as the credit unions upcoming annual meeting and also outlines the credit unions primary services such as savings and checking accounts and personal loans.

It seemed to me that the mobile app was a sterling example of small business using mobile technology to enhance services for their customers. Members were also using the app to schedule appointments at the credit union or log into online banking features.

With this as an example, I set out to make my own app built from appsbar. After signing on and choosing a template I started pointing and clicking my way through the wizard with relative ease. I've never had any technical training but in minutes I was building a mobile app.

There were dozens of color schemes, including ones that matched our company logo, and a dozen more templates. The ability to navigate from module to module made me feel like I was in complete control of the process and with some pop up help from Digi, the app built from appsbar was finished. I even had an app coach appear in a pop up window to commend me on my work.

As with every app built from appsbar I was encouraged to immediately publish the work on the appcatch market place. I was able to publish the app for iOS, Android, and HTML5 platforms. The app has many of the same functionalities as the app built from appsbar that I found online.

We have encouraged our members to download the app through email and our monthly newsletter. To date we have had several hundred members take part and the results have been amazing. With no tech input and a zero budget we developed an app that is now part of our everyday services for our members.

If you are looking for a small business app to help you improve service, launch a product, or just promote your business I would suggest going to appcatch.com to look at a similar app built from appsbar.

Charmin Patel

1st CH

Source : GoArticle

(<http://apshome.blogspot.in>)

'Magic Square, Magic Sum = 138'

Magic square is the type of mathematical pattern or we can say brother of SUDOKU, it was first highlighted and brought into existence by father of modern mathematics "SHRINIVAS RAMANUJAN". Ramanujan developed this pattern consisting of 4 columns and 4 rows and hence a total of 16 cubes or boxes. Then, he encrypted first row of pattern with his own birthdate such that the year of his birth was split in two parts.

For example: his birthdate was 22nd Dec.1887, hence in first row of pattern, he inserted 22, 12, 18, 87

Then he obtained sum of all four numbers entered in 4 boxes of first row. He got a specific answer through summation. Then he arranged and inserted other numbers in the pattern such that the:

- (1) The sum of numbers in each row must be equal to the summation of his birthdate. i.e. $22+12+18+87$
- (2) The sum of numbers in each column must be equal to the summation of his birthdate.
- (3) The sum of numbers in all corresponding END boxes must be equal. to his birthdate. i.e. in below pattern, it is 15,93,20,10
- (4) The sum of numbers in all corresponding middle boxes must be equal to his birthdate. i.e. $68,10,15,45$
- (5) The sum of numbers in all corresponding middle boxes of first and fourth row must be equal to sum of his birthdate. i.e. $11,19,44,64$
- (6) The sum of numbers in all corresponding middle boxes of first and fourth column must be equal to sum of his birthdate. i.e. $33,70,27,08$

Being inspired I have created my own magic square which includes entry of my birthdate in the first row of my pattern. My birthdate being: 15thnov. 1993, it counts 15,11,19,93 for first row of pattern and hence, all the given conditions of Ramanujan magic square pattern are being satisfied in my pattern too. The summation of my birthdate is: $15+11+19+93=138$. Now, all 5 conditions are satisfied here as the summation of all above mentioned 5 conditions has final sum 138 in my pattern. Pretty obvious! The power and beauty of MATHEMATICS!

15	11	19	93
33	68	10	27
70	15	45	08
20	44	64	10

Yash Rathod

Parents- The Best Gift Of God !!



'Parents started loving us even before we were born.' What an excellent fact!! This also proves that 'Love is Blind'. I was inspired to write this in order to express my feelings of gratitude and also to regret for my past instances of disobedience and misbehaviour.

Whenever I used to fight with my parents and wonder as to what special they have done for me compared to other parents, my sister used to tell me, "Dipam we can never ever repay back our parents whatever they have done for us even if we spend our whole life, except if we become their parents in the next birth".

'Jyare Ghar Ma Khanaar Vyakti Panch Hoy Ne Khava Mate Ek J Rotlo Hoy Tyare Je Em Ke K Mane Bhukh Nathi Te MAA Che'. And the second one is (yes, you are correct!!) 'MAA Te MAA, Baki BadhaVagda Na Vaa'. Hats off MOMMY!! What sacrifices she does for the whole family ! And do we ever ask her? "Did you have your meal? Did you enjoy it?" Or "How are you Mummy?" Or "Hey mom do you wish to go outside somewhere today?" Almost never.. Here I recall an article I had read in gujarati supplementary on Mother (especially housewife). The title was 'Maa Machine Nathi'. The writer had very beautifully pointed out the fact that a mother also needs recreation to recharge herself. We have a misconception that our mothers don't have that level of stress as we do and she is satisfied with her daily routine, but the fact is she is also a human being and needs change in life. Our mothers have become our habit; they are an integral part of us...

'Baap Karta Dikro Savayo Hoy' (is a dream of all the boys to hear from their father). Do you remember those childhood days when our father used to throw us in the air to give us the extreme joy and to see that cute smile on our face. Those days when our father used to give us a big push on the swing to give us the feeling that within seconds we'll touch the sky. Those were the best days of our life.

Actually most of us have taken our parents for granted. We feel free to pour out our hearts in front of them which we should really, but the fault lies in our attitude. We expect them to take our emotions lightly be it study load, work tension or anger due to any reason. Knowingly or unknowingly we kind of blackmail them emotionally. Our parents never wish to see us unhappy, so they suppress their responses and tend to behave normally as if nothing has happened. Thus we must rationalize our thinking and expectations and try to be more realistic in our relations with parents.

The main thing responsible for our dissociation from the environment is the advancement in technology. We all are so much absorbed in these kinds of stuff that we do remain 'social' on the social networking sites but forget the same with our own family members and relatives. Even this is my personal experience that I enjoy chatting with my friend on facebook rather than face-to-face. Why? Simple reason is that expressing our emotions virtually is easy than in real life. But we can't live in the virtual world forever. We love to share with our friends (and many a times unknowns too) sitting miles away, but are not ready to communicate with our parents. My parents tell me many a times to express everything to them otherwise one day the distance between the two would have increased so much that later on it would very difficult for both the ends to meet.

Even if you have liked a single line of this article I would request you all to go just now and give a warm hug to your parents but don't tell them the reason, just a big hug, they'll be extremely happy and surprised. And we all should decide today to respect them, love them, care for them and also spend some time with them regularly.

Love you Mom.... Love you Dad....

Dipam Patel
1st ME

Cricket- The Best Religion!!!



Yes! No problem in calling this awesome game a religion in our country, and it is best because its widely followed without any shackles of ethics.

“Pehle main batting karunga, kyonki Bat meri hain”. I'm sure similar sort of words for the fight for 1st batting are familiar to most of us.

Yes Cricket!!! or 'Bat ball' what we used to call it in childhood, has so much of role in our life's enjoyment quota. What is it about cricket that makes about more than 60% of our entire population go crazy about it? And to those who don't like it, how often has it happened to you that, whenever you tune in to TV and your Dad comes in and just says “Beta zara sports channel laganaa, score dekhna hain aaj India ki match chal rahi hain” Well here's my attempt to demystify the craze of cricket in India:

First of all, Every cricket lover is a cricketer in his own ways!! Because to play cricket all you just need is 'something' to hit other 'small thing', for example many of you might have played with a 'writing pad' and a handkerchief 'ball' or something like 'dhoka' used for washing clothes can be utilized as a bat, and with these things available its not necessary for you to have big play ground you can always have your 'Gully Cricket' or if you are short of players you can have some play even indoor!! After all smashing the ball with the bat gives great pleasure, and every bowler enjoys bowling a nasty bouncer to amaze the batsman.

Also now a days cricket has greatly evolved as a profession, because of both money and fame many youngsters are attracted towards the 'Gentleman's game'. That is why lads from small centers are making it Big!

Even at domestic level also there is handsome development, yes because now the pay scale for Ranji and other domestic matches is fairly good. Also if players are performing well but not able to make it to the national level can get in to the eyes of the IPL franchise and make some great number of coins!! The other important factor I think that's promoting this classic game is the qualitative and quantitative increase in the coaching centers.

This all was from a player's point of view; looking through the spectator's glass we see how 22 players can entertain a crowd of thousands for hours.

Yup!! Its guaranteed fun for all those cricket fans to watch their favorites play in front of them and cheer for each boundary and wickets (Definitely of the opposition) by shouting and dancing at the edge of their seats. Especially for the shorter version of the game its very difficult to get tickets!! and recall the scenes of your city's streets when India won the 2011 worldcup, Epic!!

The possible Reason behind it is that, Cricket is a game where you see a combination of three 'S' that is Strength, Skills and Stamina amongst the players which may lead a one sided demolishing win or some nail biting last over finishes, you never know what may happen in next half hour, the course of play might completely change, which keeps the mystery effect of the game alive. Also its about the greater awareness of this sport that makes people 'watch' it or rather should I use 'enjoy' it; and due to this thing the cricket broadcasting channels are very happy (Great viewership rates!!)

So Cric-Freaks keep loving, enjoying and playing this Wonderful! Wonderful!! game of cricket!!
 Yorker: Did you guys know that a batsman can be dismissed in 10 different ways, try counting I'm sure most of you won't get all 10.

Lav Rajesh Thakker
 2nd CH

Is degree essential for success in life?



If I ask you who are the most successful people in the world? Bill gates, Steve jobs, Gautam adani, is what you will answer right..?But do you know that all these are college drop out's? Nevertheless this fact has to be taken with a pinch of salt that these brains are one in a million. Since every individual cannot be Bill Gates or Steve Jobs it is necessary for the common man to think about his future, that's where degree comes into picture and that brings us to the topic- 'Is degree essential for success in life ?'

Since many people pursue careers in classic fields no one will hire them without the right credentials. Degree improves credibility. These credentials open the doors and give students access to professional networks they might not have accessed to otherwise.

For any job the knowledge required is imparted during the degree course. Without proper knowledge the chances of employment are thin and with the present scenario of market, degree becomes a fundamental requirement. Here, I would like to ask 2 questions :

- 1) Why do business giants who themselves never finished college, send their kids to top universities to obtain degrees. Even without that, the family business awaits them?
- 2) Why do MNC's sponsor courses like MBA & MS for employees? Can't they organize workshops to teach them the necessary skills?

The common answer to both the questions is that these people have realized that a proper degree is not simply an appreciation or certification but, it is a necessary and a well-organized tool for successive learning.

Mr A.M Naik who started his job as a graduate engineer is now a chairman of L&T

Mr. Aditya Birla who graduated from MIT was the chairman of Birla empire.

Ratan Tata, Dr Varghis Kurien and many more are such examples which show that with true entrepreneur spirit combined with the knowledge obtained during degree, success is achievable.

But as the cliché goes every coin has two sides. There is another side to this story.

Having a degree can be helpful but, it is not essential as it does not guarantee your success. Sometimes people end up having degree in fields they don't like. And then there are people who follow their hearts. Degree or not they pursue their liking and success becomes inevitable. Take for example, Shankar Mahadevan inspite of having a degree in Comp. Sc. Engg. he is more popularly known as a successful playback singer and a music composer.

Lacking an educational degree does not mean a person will not succeed. A degree is only his achievement and not an indicative of his character or his ambition. It is his knowledge and continued learning that are the keys to success and this can be obtained with or without degree. Walt Disney didn't graduate from college but was extremely successful. He had the ambition and motivation to press it on and it paid off.

Henry Ford, Benjamin Franklin, Mark Zuckerborg, Dhirubai Ambani these and many more are the examples of college dropout turned billionaires. Each has redefined success in his own way. Their success stories are inspiring but such situations are rare and there is always a very high amount of risk involved. Keeping the risk factor in mind it is always advisable to play on the safer side. Degree provides you assurance from the starting and guarantees your success to an extent. Once in a college one must always try to complete the degree.

I would like to conclude with a quote "Life is like a card game it doesn't matter what you are dealt with, it is how you play the game." Degree, motivation, self-belief, ideas are tools. It is in the hand of an individual to use these tools to carve his own path to success.

Gaurav Thatte
3rd EE

It's Time to Arise, Awake Hindustan...



We, the Hindus, have all types of materials, wealth and everything that is necessary to keep safe our own Religion, but still my friends, I'm sorry to say that “WE ARE IN DANGER, HINDU IS IN DANGER IN HINDUSTAN.....”

We are losing our Culture, being westernised, and going in a Black Hole. On the other hand, in west many people are adopting our religion. Now the question comes “WHO IS MAD?” ...Of course WE. I'm sorry to say this but it's the truth. This is because from the birth we are rarely told what our religion actually is. And as we grow we become fond of westernised trend on the name of MODERNISATION.

In Muslim schools they teach 'Quran', in Christian schools they teach 'Bible', but in Hindu schools we never teach 'The Bhagwad Geeta', 'The Ramayan'. We have taken Hindu mythology as merely a bullshit philosophy and don't value it. In fact it's not the philosophy. Hindu mythology in fact gives us the BASIC PRINCIPLES to live a HAPPY LIFE, and in case of troubles, how to be calm and overcome it. They are not the Story Books of Children, but indeed the PILLARS OF FOUNDATION FOR THE GROWTH OF ENTIRE MANKIND.

Another sad thing is that we just don't follow our culture, but also crack jokes on the one who follows our Culture. Sikhs always have a 'Pagdi' on their head no one makes fun of them. But if any Hindu is found in Dhoti or any traditional attires then that person becomes a matter of joke, he is considered as foolish and people say he is an old minded person of old mentality, not modernised etc. but the painful thing is that the ones who crack jokes are unfortunately Hindus only.

Another fact is that “SANSKRIT” is considered as mother of all languages, also it is considered to be the best suited for the Computer Technology. Germany has developed many SANSKRIT based universities considering its Importance. On the other hand here in India we are loosing it. If somebody says “SUPRABHATAM” instead of Good Morning, he is considered as a foolish guy of old mindset. I question each of you, how many of us can write a single sentence in SANSKRIT????

Lastly we also lack unity, we can see many people of other religion, when some trouble is there on one shout of “Apna Banda He” everyone is there for the help, forgetting all issues amongst each other and get united. On the other hand we keep fighting amongst each other on the name of castes and all that. When some trouble is there we don't forget our own issues and consider it as superior than our religion, and forget after all we are Hindus....

If this continues and we remain asleep, then the day is not far, where Hinduism will be a in history books. If you want to see your upcoming generations as HINDU, then get up for the religion, value the culture and get united..

This is just an attempt of “JAGO INDIA JAGO, AND AFTER WAKING UP, RISE UP FOR THE UNITY”

Also its our misfortune that the need of this type of thing is only for Hindus, and not for others.....

Sandeep R. Chavda
3rd EE

Change begins with us



After Several cases about shameful and brutal case of gang rape in Delhi, it wouldn't be wrong and surprising when we say that "Women's safety is merely a concept than a reality in India!" In an age, where feminism is trying to find a new definition for itself, it's time for us to realise - where are we heading? Are we doing what we should be doing?

Undoubtedly the society is tending to be male chauvinist, society where a girl cannot be considered safe. It is not just about respecting women, we generally do that. But the question is in what ways it should be done. Why is it that a woman always has to stand up and clarify their view points? Why like small kids does she have to prove every small thing that she does, to the world? On other hand, the irony of the society is, men have the liberty to go unexplained!

Today, after 65 years of Independence, our country has significantly progressed in the context of "literacy". But, think for a second! There is a difference in being a "literate" and being "liberated" ! Sadly, we have not been successful in bridging the gap over these years.

The atrocities against women are such a serious and sensitive issue that it can be discussed as well as debated in and out. But what still poses as a question is that how far have we been successful in eradicating such behaviors and attitude? In spite of being educated, what role do we play for upbringing a better and enhanced society? Do we really exist for the betterment of the society in which we are living?

We have become so impulsive and irrational, that we react only to what makes news in the headlines and what's not in the news. We live in a society where people claim that they know how to worship women, but they don't know how to respect them!

Have we become so inflexible and indifferent that such incidents affect us only when we are personally attacked? Has that sense of humanity died in us? What is required over and above empowering women is, quick and consent justice, severe punishments including capital punishments as required for the Delhi rape case.

Now it is indeed the time for youth to stand up for themselves, for their better future, for a better glowing society. It will be now or never situation for us. We can punish for injustice but still the lack of education in many parts of our country is hampering the progress and the growth. Education for every person is equally important.

"It doesn't matter who you are, or where you come from. The ability to triumph begins with you. Always." -Oprah Winfrey

Kunal Sevak
3rd IT

Modi : Man of Developing India



“MODI MEANS BUSINESS” Time Magazine cover page (2012)

“MODI MEANS PROGRESS”

“MODI MEANS REAL POLITICS”

The present status of the Gujarat is like that “Modi is known for Gujarat and Gujarat is known for Modi”. Modi is known as the face of Gujarat in terms of its progress and development.

In today's time even the small kids in Gujarat when asked “who is Narendra Modi ?” can identify Modi. This is Modi's charm in Gujarat. We predict that for this CM of Gujarat the road to Raisina Hill, Delhi is not so long.

Talking about the Gujarat election-2012, result was again in favour of Narendra Modi for his 4th term in a row. Narendra Modi is now a brand name in whole India. Due to Modi's many positive points he is the most successful politician in Gujarat. Due to the event of Modi, there are numbers of foreign investors coming and investing in our mother land Gujarat. By the events “Vibrant Gujarat” & “Vibrant Summit” Modi has shown Gujarat on the map of the world. In recent, huge solar project has put Gujarat ahead in power sector for which Modi has put lots of efforts. Also, permission for increase in height of Sardar Sarovar dam shows efforts put by Modi in Gujarat's development.

As every coin has two sides, there are some issues that point fingers towards Narendra Modi. In the election 2012, seven ministers of Modi's team were defeated who in the last term, were the ministers of home, agriculture, state education, social justice, medical ministries. Now the question arises that though having Modi's support why did not people accept such experienced leaders? Looking the matter in detail, even Modi is associated with Godhra case, Gulbarg Juhapura case, Naroda Patiya case. In these cases Modi has played role behind the curtains. These cases are pitfalls of Modi. There also had been conflict between honorable state governor Ms. Kamla Benival and Narendra Modi on appointing for position of “LOKAYUKT”. Narendra Modi is still unanswerable in case of Haren Pandya and same in case of IPS Sanjiv Bhatt. Modi is also questioned for giving the land to the industry at very low prices. Modi gives ticket to the leaders who are claimed for many cases of theft, rape, murder, corruption for the election of legislative assembly which all most all the political parties of India do.

But in the end whatever we say, Narendra Modi is the image of Gujarat. According to the survey of media Modi is leading the charts to be the next PM of India. If we look at both sides of Modi, the positive side of Modi is shining like a star. Modi doesn't give attention to the critics, he just keeps on converting his dreams into the success. In Gujarat BJP, Narendra Modi is like “ONE MAN ARMY”.

Chirag Panasuriya
3rd IT

A Unique One



“Word 'MAA' cannot be described by mankind!!” -Moraribapu

“Wake up dear it is 6:30 a.m.! Be ready quickly, you are getting late for your school, your snacks has been ready!!!” These words were my mother's when I was in school. These words still wake me up early in the morning because they are ringing in my ears.

When I remember word 'MAA' the idol of love, tolerance and even God stands before me. Really no one greater than my Mother can I see in the world. She took enormous care of mine from my birth as I was very lovely and important for her. I was very valuable for her that she could not leave me only for 5 hours for school. In the beginning of the day first of all she sent me school, at noon we both used to take lunch together, after taking a short nape she helped me in my homework. This was my daily before entering in the college. But with all that there was a great thing in her which developed me. Sometimes she had slammed me, scolded me, but after all she hugged me, kissed me and said “Dear I am sorry for that but it was for you na?” Really she is stream of kindness.....

Here whatever I am writing for my mother is just a negligible part of whatever she has done for me. Each of us has ambition or dream in our mind but my mother's dream was PARTH (me). Whatever I am today is just because of my mother. Till I was 10 years old I used to listen to moral stories from my mother which taught me a new attitude.

I frankly say that I would not have been here if I would not have been saved twice by my mother at the age of 14 and 17 when I had started to go on wrong way of life. She gave me a new light, a new vigor, a new vision, a new inspiration and a new way of life. Sorry, now my pen can't describe her because she is indescribable. In the end, I want to tell my mother: " Mummy, I am lucky to have a mother like you and I am sorry if I have ever hurt your flowery heart."

Let me say something " Mummy you are great. Mummy I LOVE U "

Parth K Thakar
1st ME

We bet you didn't know these Google services

Search, videos, photos, sharing, writing, texting, flashing, from early morning news paper to late night chatting, ask and GOOGLE is there .but you are not well aware of what is the size of Google's stomach (and get it does not aches!). These are the 5 Google services, we bet you don't know.

- 1. Google Fiber :** For you net lovers and BSNL haters, this one is for you. Google FIBER is a broadband network that offers 100 times more speed than other ones.
- 2. Darter :** Find C language some kind at alien-ware. Google is there for you. Dart is a brand new programming language made by google. Go cp & it branch go.
- 3. Google Powermeter :** Save energy. Save Money. Make a Difference. With this motto, Google has launched a free power and electricity measurement tool so that you can cut cost on your electricity bill and know what GEB and Relaince are up-to.
- 4. Google URL Shortner :** For all “Bada muh Choti baat”, I mean twitter lovers ,Google has introdced their URL Shortner”goo.gl”.It Shortens any URL to goo.gl/xxxxx and makes it easy to post in those 140 characters.
- 5. Schemer :** Schemer is a fantastic app which almost changes our perspective of Apps. When-ever any idea or how they call it a Scheme, strikes your fancy, just tack it in Schemer. According to the outside environment and your mood, it recommends the most suitable thing for you. For example watching a movie if it's a rainy day, or checking out a new brunch spot on a weekend morning.

Charmin V. Patel & Abhijit A. Mahida
1st CH

Brain Teasers

A rich man named Parth Patel had been counting his money. When he finished, he accidentally left a Rs 10,000 bill on his desk but when he returned for it a short while later, it was gone. Only two other persons could have seen the bill. One was the cook named Shweta Patel and the other was the gardener named Aakash Gandhi. The cook told them that she had hidden it for safekeeping under a blue book that was on the table. But when they looked, the bill was not there. The gardener said he had found the bill where the cook had left it. He had placed it inside the book, where he thought there was less chance that somebody would find it. He had written down the page numbers so that he would not forget them. The bill was between the page 45 and 46, he said but when they looked, there was no money in the book. After Mr. Parth Patel had talked to the cook and the gardener, he called the police. He was sure he knew who had taken the money. Who was it, and how did he know?

Solution : - The gardener did it. Mr. Patel knew the gardener was lying because pages 45 and 46 in a book are always printed on opposite sides of the same paper.

Jigesh Mehta
3rd CH

Are women better managers?



Women as manager, this is not a new point of view. Women have been managing since the Stone Age. The managing quality is what we can call is a basic instinct of women. Although in past, the field was different but now they are trying or I must say they have already tried and gained a lot of experience in other managerial positions. Women of 21st century are becoming more and more career oriented. They are now coming out of their closets to rightfully gain what was rightly theirs. They know what is the aim of their life, what they have to achieve.

We can see that today women are stepping out walking side by side with men and sometimes even leaving men behind. Well if I put it with some examples I find no better examples than Shahnaz Hussain, CEO, Shahnaz Herbals, Preetha Reddy, Managing Director, Apollo Hospitals, Jyoti Naik, President, Lijjat Papad.

But in order to achieve their career, their futures, are they sacrificing or ignoring the other part of their life?

In earlier days , men used to handle the money affairs and women used to handle the family affairs , maintain household chores, managing their children and maintain relationships. Now the scenario is changing, the defined work to the two sexes is coming under question. Men are trying to get a hold of their family and women trying to get hold of their life.

Ego clashing between the two sexes usually becomes the problem. It's not their fault , it's how we human react if somebody does not work according to our terms. Instead of messing the situation, the two have to set their ego aside and solve it together. As men have the habit of controlling from the past, it would take time for them to adjust. Women among the two have to take a bigger step. I personally believe that women have the power to change any scenario. They have the potential to adjust; they have what is needed in this situation. Its not about "Why should I?" , its about "When I do this what will be the result of it." They have to do this for the betterment of their as well as their family's benefit. Keeping balance between the career and the family is essential too. As one cannot flourish without the other.

The answer to my question is yet to be answered and I don't think it can be answered by one person .you as an individual can answer it at your level.

So think, what you think ?

Anuj Shishu
3rd ME

Ratan Tata- An Indian CEO



Born 28 December -1937 (Mumbai)

Ratan Naval Tata Known as Ratan Tata is an adoptive great-grandson of Tata group founder Jamshedji Tata. Since (1991) Ratan Tata takes command of Tata group, Group multiplies its overall profit by 43 times. Ratan Tata helps group to expand globally. Here I give some examples of major steps which group took under leadership of Ratan Tata.

- ◆ 2000: Tata Tea (Now Tata Global Beverages) owned U.K's Largest Tea manufacturing company Tetley for \$433.6 million and became second largest tea manufacturer in the world after Unilever.
- ◆ 2007: Tata Steel purchased U.K's one of the largest steel maker CORUS group company for USD 20.04 Billion. The deal was the India's largest takeover of a foreign company and made Tata Steel the world's fifth-largest steel group.
- ◆ 2008: Tata Motor bought British luxury car brand Jaguar, Land Rover for \$ 2.3 billion. Apart from that Tata group is working in 7 sectors and have ownership of company like Titan watches, Voltas, Tata DOCOMO, TCS etc.

On acquiring global steps Ratan Tata has a vision to bring new technology in India. In country like India many times you heard words like "Do you Know Who I Am" but Ratan Tata is exception. Everyone might have a thought to contribute to country by working in military services or any government services or doing social work, but Ratan Tata has done it by doing business with the core values: trusteeship, integrity, respect for individual and excellence. Here I list out some incredible steps taken by Ratan Tata in contribution to country.

Taj Hotel: Few months after 26/11, Taj group of Hotels owned by TATAs launched their biggest tender ever for remodeling all their Hotels in India and abroad. Some of the companies who applied for that tender were Pakistanis. To make their bid stronger, two big industrialists from Pakistan visited Bombay House, (Head office of Tata Group) in Mumbai without an appointment to meet up Ratan Tata, since he did not give them any appointment to meet at that time.....

They were made to sit at the reception of Bombay house and after few hours message was conveyed to them that Ratan Tata is busy and cannot meet anyone without an appointment. These two Frustrated Pakistani industrialists went to Delhi. With the help of their High Commission they met up with the Commerce Minister Anand Sharma. When Anand Sharma told Ratan Tata to take their tender, Ratan Tata said "You might not have shame, I have"

That's what our leaders have to learn from Ratan Tata.

Tata Sumo: Few months later when Pakistani government placed an order of Tata Sumo to be imported into Pakistan, Ratan Tata refused to ship a single vehicle to that country. Tata Group is working in more than 250 countries but till date, Tata Motor isn't selling its cars in Pakistan and China. This is the respect and love for motherland that Ratan Tata has (showed).

Young boy: At Bombay House(HQ of Tata group) Mr. Tata used to walk in with a smile and greeting people as he walked in. As he approached the elevator, there was a young boy who seemed to be a delivery boy from another company waiting for the elevator as well. Noticing Mr. Tata, the boy moved aside to allow him to get in. Mr. Tata however said "after you" and humbly followed the shocked little boy into the elevator!

All above facts give respect to title that he is not only Successful CEO but also a True Indian. Recently he is retired from the post of chairman on 28th December (Also his 75th birthday) and announces Sayrus Mistri as a new chairman. I have't heard more about Sayrus Mistri but fortunately he is Ratan Tata's choice.

Dharmendra Chhaiya
3rd EE

શિક્ષક સમાજ માટે આશીર્વાદ



મનુષ્ય પોતાના જીવનકાળ દરમિયાન ડગલે ને પગલે કુદરત પાસેથી કશુંક ને કશુંક શીખતો આવ્યો છે. જે જે વસ્તુ, વ્યક્તિ કે અન્ય ચીજ કે જેની પાસેથી આપણને કશુંક જ્ઞાન મળે છે તે આપણા ગુરુ કહેવાય... ટૂંકમાં કહીએ તો, “ જે રસ્તો દેખાડે તે આપણા ગુરુ.”

આપણે જ્યારે જન્મીએ છીએ ત્યારે આપણી પાસે કશું જ્ઞાન હોતું નથી. પરંતુ સમય જતા આપણા સંપર્કમાં જાણતા - અજાણતા ઘણી બધી ચીજો કે વ્યક્તિઓ આવે છે કે જેની પાસેથી આપણને કશુંક શીખવા મળે છે. તે આપણા ગુરુ કહેવાય છે. દા.ત. આપણે પુસ્તક વાંચીએ છીએ અને જ્ઞાન મેળવીએ છીએ માટે પુસ્તક આપણો ગુરુ કહેવાય. ધારો કે.. કોઈ વ્યક્તિ સચિન તેંડુલકરના આદર્શો પર જીવીને તે પોતે પણ સારો ક્રિકેટર બનવા માંગતો હોય તો સચિન તેંડુલકર તેના માટે ગુરુ કહેવાય. આપણી શાળા - કૉલેજોના શિક્ષકો પણ આપણા ગુરુ કહેવાય.

જેની પાસે અહંકારરહિત જ્ઞાન હોય અને જેના મનમાં સતત એવી જ ભાવના હોય કે કેમ કરીને હું આ જ્ઞાન બીજાઓને આપીને તેમને સુખી કરું તે જ સાચા અર્થમાં ગુરુ કહેવડાવવાને લાયક છે. જે વ્યક્તિ પોતાના જ્ઞાન દ્વારા પોતાને તથા બીજા અનેકને સંસારસાગરમાંથી મુક્ત કરાવે છે અને મોક્ષ અપાવે છે તે જ સાચા અર્થમાં ગુરુ કહેવાય. દા.ત. પૂર્ણ પુરુષોત્તમ કૃષ્ણભગવાને પણ સાંદિપની ઋષિને પોતાના ગુરુ બનાવ્યા હતા. મર્યાદા પુરુષોત્તમ ભગવાન શ્રીરામે પણ વસિષ્ઠ ઋષિને પોતાના ગુરુ બનાવ્યા હતા.

માતા બાળકની પ્રથમ ગુરુ કહેવાય. કારણ કે માતા જ બાળકનું ઘડતર, સંસ્કાર સિંચન કરે છે. અરે, માતાને તો સો શિક્ષક કરતાં પણ ચડિયાતી ગણવામાં આવે છે, એટલે જ તો કોઈ કવિએ કહ્યું છે કે.. “જનનીની જોડ સખી નહિ જડે રે લોલ”

વિદ્યાર્થી અથવા શિષ્યોની તેમના ગુરુ પાસેથી જ્ઞાન ગ્રહણ કરવાની ક્ષમતા તેમની પોતાના ગુરુ પરની અડગ શ્રદ્ધા ઉપર નિર્ભર કરે છે. ગમે તે પરિસ્થિતિમાં પણ તેને પોતાના ગુરુનો એક પણ દોષ ન દેખાય અને ગુરુ પ્રત્યેની શ્રદ્ધા ન ડગમગે ત્યારે જ તે વિદ્યાર્થી પોતાના ગુરુ પાસેથી પૂર્ણજ્ઞાન પ્રાપ્ત કરી શકે છે દા.ત. ગુરુ દ્રૌણાચાર્યે એકલવ્યને પોતાના ગુરુ બનવાની ના પાડી દીધી હોવા છતાં પણ એકલવ્યની ગુરુ દ્રૌણ પ્રત્યેની અડગ શ્રદ્ધાને કારણે પથ્થરની બનેલી ગુરુની મૂર્તિ પાસેથી પણ તે પૂર્ણ જ્ઞાન મેળવી શક્યો હતો.

શિક્ષકમાં કેવા કેવા ગુણો હોવા જોઈએ? નવું નવું શિખવાથી મનુષ્યોનું માનસિક સ્તર ઉપર આવવાની સાથે સાથે અહંકાર પણ વધતો જાય છે, જે શિક્ષકમાં ન હોવો જોઈએ. એટલે કે શિક્ષક અહંકાર રહિત હોવો જોઈએ. શિક્ષક જ્ઞાનની બાબતમાં અસંતોષી હોવો જોઈએ. તેને પોતાના જ્ઞાનથી સંતોષ ન થવો જોઈએ અને પોતાનું જ્ઞાન સતત વધારવાનો પ્રયત્ન કરતો રહેતો હોવો જોઈએ વિદ્યાર્થીઓ સાથે પોતે મિત્રની જેમ વર્તી શકે તેવો હોવો જોઈએ. શિક્ષક સમાજ, દેશ અને રાષ્ટ્રની સમસ્યાઓને સમજી શકે તેવો હોવો જોઈએ. શિક્ષક ન્યાય પ્રિય હોવો જોઈએ શિક્ષક બીજાઓની ભાવનાઓને વધારે સારી રીતે સમજી શકે તેવો હોવો જોઈએ. શિક્ષક સામાજિક દૂષણો જેવા કે ભ્રષ્ટાચાર, અપહરણ, હત્યા, ચોરી, લૂંટ-ફાટ વગેરે સામે અવાજ ઊઠાવી શકે એવો હોવો જોઈએ.. શિક્ષક બીજાના દુઃખે દુઃખી અને બીજાના સુખે સુખી રહી શકે તેવો હોવો જોઈએ. શિક્ષક સદાચારી હોવો જોઈએ. શિક્ષકમાં ઉમદાપણાનો ગુણ હોવો જોઈએ.

શું આજના શિક્ષકો શિક્ષક કહેવડાવવાને લાયક છે? જવાબ છે “ના” કારણ કે આજે આપણે શિક્ષણને નાણાં ઉપાર્જન કરવા માટેનું માધ્યમ બનાવી દીધું છે. આજે તો શિક્ષક પાસે પણ પૂરતું જ્ઞાન હોતું નથી. જે આપણા સમાજની મોટામાં મોટી નબળાઈ છે. ઉપરાંત આજના વિદ્યાર્થીઓ પણ વિદ્યાર્થી કહેવડાવવાને લાયક નથી. તેમની શિક્ષક પ્રત્યે અડગ શ્રદ્ધા હોતી નથી.

“જ્ઞાન” તો એને કહેવાય કે જેનું કોઈ મૂલ્ય આંકી ન શકાય. જ્ઞાન તો અમૂલ્ય હોય પરંતુ આજે તો જ્ઞાન રૂપિયા દ્વારા મેળવવામાં આવે છે. જે સમાજની નબળાઈ દર્શાવે છે.

શિક્ષકોનું સમાજને યોગદાન :-

બધા જ વ્યવસાયોમાંથી શિક્ષણને એક ઉમદા વ્યવસાય તરીકે સ્વીકારવામાં આવ્યો છે. કારણ કે સમાજનું ભાવિ તેના ઉપર જ નિર્ભર છે. એન્જિનિયર, ડોક્ટર, વૈજ્ઞાનિક વગેરેનો જન્મદાતા શિક્ષક જ કહેવાય છે. માટે એન્જિનિયર, ડોક્ટર કે વૈજ્ઞાનિકોનું સમાજને યોગદાન એ શિક્ષકોનું જ યોગદાન ગણાય છે. શિક્ષણ જ માણસને માણસ બનાવે છે. તથા શિક્ષણ જ માણસને માનવમાંથી મહામાનવ બનાવે છે.

ગુરુનું મહત્ત્વ સમજીને ભારતમાં દર વર્ષે “ગુરુપૂર્ણિમા” ઉજવવામાં આવે છે.

Special Thought for Teachers :-

" A Teacher has to burn like a candle to ignite innumerable other candles. He must continue to upgrade his knowledge and always innovate and experiment.

- Ravindranath Tagore.

“ગુરુઃ બ્રહ્મા ગુરુઃ વિષ્ણુ, ગુરુર્દેવો મહેશ્વરઃ ।

ગુરુર્સાક્ષાત્ પર બ્રહ્મઃ તસ્મૈ શ્રી ગુરુવૈ નમઃ ॥”

In the beloved memory of all my Teachers.

Jitesh V. Kadivar

3rd ME

માન ઝંખતી માતૃભાષા

“जननी च जन्मभूमि स्वर्गात् अपि गरियसि ।” એટલે કે મા અને માતૃભૂમિ સ્વર્ગ કરતાં પણ મહાન છે. તે મા ની ભાષા એટલે માતૃભાષા. તે ગુજરાતી ભાષા છે. આપણા ગુજરાતના લોકો માટે મહાન હોવી જ જોઈએ.

દરેક વાલીઓને મૂંઝવતો પ્રશ્ન કે પોતાના બાળકને ગુજરાતી માધ્યમમાં કે અંગ્રેજી માધ્યમમાં અભ્યાસ કરાવવો. આવનારી પેઢીમાં ગુજરાતી ભાષા નષ્ટ થનાર છે. આપણે તેને બચાવવા પ્રયત્નશીલ રહેવું જોઈએ. નવી પેઢી પશ્ચિમી સંસ્કૃતિ તરફ જઈ રહી છે અને પારકી ભાષા અપનાવી રહી છે. અંગ્રેજી ભાષા જરૂરી છે, પણ માતૃભાષાથી ચડિયાતી નહીં. અંગ્રેજોએ આપણા દેશમાં આવીને પોતાનું સામ્રાજ્ય જમાવ્યું અને અંગ્રેજી વિષયનું પ્રભુત્વ જમાવ્યું. તે રૂઢીચુસ્તતા હજી આપણામાં છે. જો વિદ્યાર્થીઓને માતૃભાષામાં વાંચતાં, લખતાં ન આવડે તો તે વ્યર્થ છે. વાલીઓએ અંગ્રેજી શીખવવી જેથી તેને આગળ તકલીફ ન પડે. વાલીઓ જો ઘરમાં ગુજરાતીમાં વાતચીત કરતાં હોય તો બાળકને ગુજરાતીમાં અભ્યાસ કરાવવો જોઈએ.

મહાન કવિઓએ અને લેખકોએ આપણી માતૃભાષા વિશે ઘણું કહેલું છે. બાળક જ્યારે માતાના પેટમાં નવ મહિના હોય ત્યારે તે નેવું ટકા ગુજરાતી શીખી ગયેલ હોય છે. ફક્ત દસ ટકા ગુજરાતી તે શ્રવણ અને દેશ્ય વડે શીખી જાય છે અને આપણે અંગ્રેજી માધ્યમમાં અભ્યાસ કરાવીએ તો તે “સૂઝી વચ્ચે સોપારી” જેવી પરિસ્થિતિ થાય છે. અંગ્રેજી માધ્યમનાં વિદ્યાર્થીઓને **Cow** એટલે ગાય કહેવાય તે ખબર હોતી નથી. એક મહાન કવિએ લખેલું છે કે અંગ્રેજી માધ્યમના વિદ્યાર્થીઓમાં સંસ્કારનાં ગુણો ઓછા હોય છે. ગુજરાતની બહાર હિન્દી અને અંગ્રેજી ભાષા જરૂરી છે. પણ ગુજરાતમાં રહીને ગુજરાતી ન આવડે તે નકામું છે. ગુજરાતી ભાષા જ આપણી ઓળખાણ છે.

- ભલાણી પારસ એમ.

2nd EE

દિલ્હી ગેંગરેપની કરુણ ઘટના સાંભળીને એક નાનકડી ટકોર...

દિલ્હીનો ગેંગરેપનો કિસ્સો સાંભળીને આખા દેશમાં હાહાકાર ને હોબાળો મચી ગયો. ગુનેગારો એ નિર્દોષ છોકરી પર અત્યાચાર કર્યો એ ઘટના સાંભળીને કોઈપણનું દિલ દ્રવી ઉઠે. આપણી ભારતીય સંસ્કૃતિ પ્રમાણે સ્ત્રીને ઉચ્ચ સન્માન આપવામાં આવે છે તો પછી સ્ત્રીની સુરક્ષા અને સ્વતંત્રતા કેમ જળવાઈ રહેતી નથી? એ માટે સૌ કોઈએ કાળજી લેવી જોઈએ, ગુનેગારોને આકરી સજા થવી જોઈએ અને કાયદાનું અમલીકરણ તુરંત જ થાય એવી જોગવાઈ થવી જોઈએ.

વિદ્યાર્થી વર્ગના લોકો બળાત્કાર જેવા શિકારનો ભોગ બને છે. દિલ્હીની ઘટના સાંભળી ને સૌ કોઈએ જાગૃત્તા લાવી સજાગ બનવું જોઈએ એ માટે કોઈપણ સ્ત્રીએ મુસાફરી દરમ્યાન કે અન્ય કોઈ જગ્યાએ બને તો એકલા ન નીકળવું. વિદ્યાર્થીનીઓએ કોઈ અજાણ્યા લોકોને લીફ્ટ ન આપવી તેમજ પોલીસખાતા જેવા અગત્યના મોબાઈલ નંબર સેવ રાખવા. ફક્ત દિલ્હીનો એક જ આવો બળાત્કારનો કિસ્સો નથી. આવા તો અનેક ગુનેગારો માનવતાને નેવે મૂકીને કેટલીય સ્ત્રીની જીંદગી સાથે રમત રમે છે, એટલે જ આજે મારી કલમ લખવા મજબૂર થઈ ગઈ છે કે....

કુદરતનો ચહેરો આજ ચોધાર આંસુઓથી રોળાયો છે

કારણ એક જ માત્ર કે માણસમાંથી આજ માણસ ખોવાયો છે...

તો ચાલો આપણે સૌ એજ્યુકેટેડ થઈને નોન એજ્યુકેટેડ ન બનતા આપણે કોઈ ગુનો ન આચરીએ તેમજ ગુનેગારોને પણ અટકાવીએ અને દેશનું ભવિષ્ય ઉજ્જવળ બનાવીએ.. જય ભારત... જય હિન્દ...

આનંદ પરમાર

2nd CH

Edu Focus

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International Conference on Emerging Trends in Mechanical Engineering (ICETME-2013)



Date : Jan.4-5, 2013



Mechanical Engineering Department of G H Patel College of Engg. & Technology (A Charutar Vidya Mandal Institution) organized an International Conference on Emerging Trends in Mechanical Engineering during January 4-5, 2013.

Delegates from overseas (Sweden, Nigeria, UK, Israel) and 15 different states of the country participated in the conference. The delegates from academic institutions including NITs, Research organizations like DRDO and ISRO, and Industry like L&T presented their research work. Many research students also participated in the conference.

This conference was organized with an objective to focus on the emerging trends in the field of Mechanical Engineering and to provide a common platform for academicians, industrialists, research scholars and brilliant students of the country to share and exchange their knowledge and expertise.

Eminent personalities like Dr. Jiju Antony (University of Strathclyde, Glasgow, UK), Dr. S A Channiwala (SVNIT, Surat) and Shri D B Bhatt (ISRO, Ahmedabad) delivered expert talk on insightful issues related to academics and industry.

During the inaugural function of the conference Dr. C L Patel (Chairman, CVM) emphasized on the development of the students and the faculty members through such programmes. Dr. Himashu Soni (Principal, GCET), congratulated Dr. Darshak Desai (Head), Dr. Mukesh Bulsara (Organizing secretary), Prof. Vivek Deshpande (Organizing secretary), and all staff members and student volunteers for the success of the event. The department expressed deep sense of gratitude towards Charutar Vidya Mandal for supporting this event.

International Conference on Innovations in Automation and Mechatronics Engineering 2013 (ICIAME-2013)



Date : Feb.21-23, 2013



Mechatronics Department, G H Patel College of Engineering & Technology, Vallabh Vidyanagar, organized the “International Conference on Innovations in Automation and Mechatronics Engineering 2013” (ICIAME-2013), during Feb. 21-23, 2013. Dr. Himanshu Soni (Principal, GCET college) served as the Chairman and Prof. Bipin Doshi (Head, Mechatronics Dept) as the Convener of this conference. Dr. Sanket N. Bhavsar (Professor, Mechatronics Dept) served as Organizing Secretary and Dr. Vinod N. Patel (Associate Professor, Mechatronics Dept) as Joint Organizing Secretary of this conference.

This conference, ICIAME-2013, marked the first time of the conference focused on Mechatronics and Automation ever held in the Gujarat state. This conference mainly highlighted the topics like MEMS, Robotics, Automation, PLC, Micro and Nanotechnology, etc., which are considered as tools for Innovations.

The “Easy-Chair” facility was utilized for online paper submission. It is a high-tech facility for managing the data of all paper submissions at a single place. The conference attracted 60 researchers for paper submission and out of which 31 research papers got selected for presentation. Apart from the 4 technical sessions arranged for the paper presentation, in order to make the efforts meaningful and result oriented, keynote speakers were invited from well recognized universities. Prof. S.S. Rao (Uni.of Miami, Florida, USA), Prof. N.S. Vyas (Coordinator - Center of Mechatronics, IIT Kanpur) and Dr. D.M. Fulwani (Electrical Dept, IIT Rajasthan) were invited to provide their invaluable insights to make the conference more knowledgeable and interesting.

The unique attraction of this conference was the industrial visit. The prime attraction of the visit was “Amul Dairy, Anand” and “ELECON Engg Co. (BMEC Divison), V.U. Nagar”. It was tried to bridge the gap between the industry and academia through these visits.

Using the platform of this conference, it had been tried to bring people together to share their research in terms of innovations. The organizing committee is thankful to Dr. C.L. Patel Sir (Chairman, Charutar Vidya Mandal) for their unconditional support and help to organize this International conference. The organizing committee is also thankful to SERB (Dept of Science & Technology, New Delhi) and GUJCOST (Gujarat) for providing partial financial support to this conference.

International Conference on Intelligent Systems and Signal Processing (ISSP 2013) (Technically Supported by IEEE)



Date : March 1-2, 2013



Brief Report about Event :

Department of Information Technology and Electronics & Communication Engineering of G H Patel College of Engg. & Technology (A Charutar Vidya Mandal Institution) jointly organized an International Conference on Intelligent Systems and Signal Processing (ISSP 2013) during March 1-2, 2013.

Total 246 research papers were received from 9 different countries around the world and 18 states of the nation. Out of that 122 papers were selected based on peer review process executed by 120 reviewers. Acceptance ratio was 49%. Total 84 papers got registered in the conference. All registered papers will be published online on IEEE Xplore digital library.

ISSP 2013 also added a special PG Track for post graduate students. This special track was opened for PG students of the state, to give exposure of the conference. It was the aim that PG students might attend the conference and get motivation as well as directions from the renowned keynote speakers of the conference. We received 52 Papers for this track and accepted 32 papers for this special track. Thus, total number of papers presented in the conference was 116. All papers were presented in 6 parallel tracks at different venues of the institute.

Dr. Tohru Asami, Professor University of Tokyo, Japan was the chief guest and Dr. S N Merchant, Professor, IIT Bombay was the guest of honor during the function. Along with them eminent personalities like Dr. Pushpak Bhattacharya, Professor, IIT Bombay, Prof. Krishna Vaidya, IIT Gandhinagar and Prof. Bhabani Sinha, Indian Statistical Institute (ISI), Kalkatta delivered expert talks sharing their research experiences and providing deep insights of the upcoming technologies. During the inaugural function of the conference, Dr. C L Patel (Chairman, CVM) emphasized joint association with IITs for research and development activities.

The conference was having pre conference workshops on 28th February 2013. The speakers of the workshops were Dr. Malay Nema, CAIR, Bangalore, Mr. H D Mustafa, Transocean Inc & RIG Ltd. and Mr. Ajay Nawani, Industry Elite core Technologies, developers of Cyberroom- Internet Management Software. More than 150 participants got benefitted from these workshops.

Dr. Himashu Soni (Principal, GCET), congratulated Dr. Apurva Shah (IT Head) and Dr. Bhaskar Thakkar (EC Head), Dr. Hitesh Shah (Organizing secretary) and all staff members and student volunteers for the success of the event. Both the departments have expressed deep sense of gratitude towards Charutar Vidya Mandal for supporting this event.

Experts views on GCET

DEPARTMENT OF DESIGN, MANUFACTURE & ENGINEERING MANAGEMENT

International Conference on Emerging Trends in Mechanical Engineering, 4th - 5th January, 2013



It was an immense pleasure attending the ICETME 2013 in Gujarat last January where I and Professor Antony have had the privilege to meet like-minded scholars, practitioners, students and researchers from different parts of India. As this was my first attempt in attending an international conference in India, I personally felt the conference was well organized and it was indeed a great success in my personal view. I have asked Professor Antony about his standpoint and he felt the same. I have thoroughly enjoyed the conference and wish to take this very opportunity to appreciate the tremendous work done by the conference committee, not only about organizing the excellent keynote speakers and parallel sessions, but also the impressive social activities throughout the conference. The impressive local musical performance gave me as an international attendee a great glimpse of the colour of Indian culture especially the very own people in Gujarat.

The parallel sessions consist of interesting research works on various topics in mechanical engineering discipline. However there are too many presenters in one session which caused each presenter given quite a limited time to present the whole research. Moreover, the quality of some of the papers was quite poor particularly papers on the applications of Taguchi Methods and some of the papers also lack in depth discussion and justification in terms of the research method adopted by the researcher. Having spoken to Professor Antony, we both encourage you and the Conference Committee to make sure that all papers are to be carefully reviewed by the experts in the field and practitioners which will subsequently increase the quality of the papers to be presented at this event. I and Professor Antony have truly enjoyed the keynote session addressed by Mr Dilip Balmukund Bhatt from Indian Space Research Organizations (ISRO) who was quite phenomenal, instrumental and articulate about his talk. We felt that the inspiring presentation from Mr Dilip Balmukund Bhatt was an eye opener in terms of deriving practical and simple solutions for complex problems. It was quite unfortunate that our stay at the hotel had an appalling catering and food service and the conditions and quality of the rooms are poorly maintained. However, we have enjoyed the warm welcome and hospitality from the conference committee members and students who have always been there to help the delegates. The varieties of foods provided throughout the conference event were delicious. Overall, from our participation of ICETME 2013 in Gujarat was not only kind and interesting but also sentimentally memorable. I would like to congratulate ICETME 2013 committee members in successfully organising this conference.

Sincerely, Professor Jiju Antony

Sarina Abdul Halim Lim,

Department of Design, Manufacture and Engineering Management,
University of Strathclyde, Glasgow, United Kingdom

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Experts' views on GCET

Letter from Dr. S. A. Channiwala

To,
The Organizing Secretary of ICETME-2013,
GCET

Wish you at the best of your health and happiness. It was really the matter of great pleasure for me to be the part of ICETME-2013. Everything was well organized. The inaugural session was precisely managed by specifying the time slots for speakers. It started as per schedule and concluded as per time slots. The plenary session also started as per schedule and it was really wonderful. All other sessions went quite well. I can see the wide spectrum of the research papers embodied in the conference as well as the speakers from international as well as the national level making the conference a truly international. The peripheral arrangements like accommodation, stage preparation, audio-visual system and the food -all were wonderful. I in person have enjoyed the conference and do say a big THANKS for inviting me as guest of honor and a keynote-speaker.

**Thanking you again,
Dr. S. A. Channiwala**

Comment from the delegates of ICETME-2013

I want to sincerely thank the organizers of icetme2013 for the hospitality accord me during my stay for the program. I felt as if am at home during my stay at vallabh vidyanagar. I sincerely hope you could thank all the students on my behalf especially, Divyesh, Shyamal, Darshan, and Jay.

Am now in Nigeria. I hope to plan well for the next coming program and if their is any staff training program, please let me know on time as i wish to attend.

**Thank you.
Aliyu Ibrahim**

Resp. Sir;

Thanks for your kind help during the conference. It was amazing to learn to Dr. Antony on the topic of six sigma. Chairman Dr. C. L. Patel sir is so energetic personality. i like his "Think Globally and act locally" quote.

Arrangements were fine. One of the best things was a lunch. Only one request that halting may be arrange in the campus only or at proper place in future [icetme2014]. Personaly very much thankful to prof. Vivek deshpande for his kind cooperation.he is hardworking man.....hope that we will meet again in next conference.

Thanks again to Prof. Bulsara, Dr.Desai and whole team of icetme2013.

- Sanjay Purkar

Conferences @ GCET



International Conference on Emerging Trends in Mechanical Engineering (ICETME-2013)



International Conference on Innovations in Automation and Mechatronics Engineering 2013 (ICIAME-2013)



International Conference on Intelligent Systems and Signal Processing (ISSP 2013) (Technically Supported by IEEE)

International Conference on Emerging Trends in Mechanical Engineering (ICETME-2013)



**Keynote speaker: Dr. Jiju Antony
(BE, MSc, PhD, FRSS, FIOM, FCQI)**

Director, Centre for Research in Six Sigma and Process Excellence
Director of Knowledge Exchange, Editor of the international Journal of Lean Six Sigma
Certified Six Sigma Black Belt, Department of DMEM, University of Strathclyde, Glasgow



**Keynote speaker: Shri. Dilip Balmukund Bhatt
Scientist Engineer "G"**

Group Director MSFG, Controller-Space Applications Centre-(SAC),
Indian Space Research Organisation (ISRO)
Jodhpur Tekhra- Ambavadi Post Vistar Ahmedabad 380015, India.



**Keynote speaker : Dr. Channiwala Salim Abbasbhai
(B.E., M. Tech., Ph. D.)**

Professor, Mechanical Engineering Department,
Ex- Director-In Charge, SVNIT, Surat,
Ex-Head, Mechanical Engineering Department,
S. V. National Institute of Technology, Ichchhanath,
Surat 395 007, Gujarat, India



Dr. R P Arora (During Valedictory)



Dr. Peter Krus (Sweden)



Prof. Aliyu (Nigeria)

International Conference on Innovations in Automation and Mechatronics Engineering 2013 (ICIAME-2013)



**Keynote Speech by
Prof. (Dr.) S. S. Rao
(Univ. of Miami, USA)**



**Keynote Speaker:
Prof. N. S. Vyas,
Coordinator, Centre of Mechatronics,
IIT-Kanpur**



**Keynote Speaker :
Dr. Deepak M. Fulwani,
IIT-Jodhpur**



Paper Presentation



Valedictory Session



Certificate Distribution

International Conference on Intelligent Systems and Signal Processing (ISSP 2013) (Technically Supported by IEEE)



**Keynote speaker : Prof. Tohru Asami
(Professor, University of Tokyo, Japan)**



**Keynote speaker : Dr. S N Merchant
(Professor, IIT Bombay)**



**Keynote Speaker :
Dr. Krishna Vaidya
(IIT Gandhinagar)**



**Keynote Speaker : Dr. Bhabani Sinha
(Indian Statistical Institute
(ISI), Kalkatta)**



**Keynote speaker :
Dr. Pushpak Bhattacharya
(Professor, IIT Bombay)**



**Workshop Speaker :
Dr. Malay Nema
(CAIR, Bangalore)**



**Workshop Speaker :
Mr. H D Mustafa,
(Transocean Inc & RIG Ltd.)**



**Workshop Speaker :
Mr. Ajay Nawani
(Industry Elite core Technologies)**

Chemical Engineering Department

Department established in : 1996

Faculty Details :

Prof.	: 01	Asso. Prof.	: 06
Asst. Prof.	: 04	Trainee Lecturer	: 01
Non-Teaching Staff Members : 05			



Features of Departmental Infrastructure:

Department has been accredited by Natinal Board of Accreditation.

The Department has 12 state of the art laboratories with about 130 equipment, bench-scale experimental set ups and pilot plants to cater the need of undergraduate curriculum of B.E (Chemical Engineering) of Gujarat Technological University (with effect from 2007-08). Total investment on equipment is more than Rs 50 lakhs

Apart from the traditional Chemical Engineering Laboratories of Heat & Mass transfer, Reaction engineering, Fluid mechanics, Mechanical operations, Chemical and Petroleum technology and applied chemistry the Department is enriched with computerized Process Control and Modeling and Simulation laboratory with latest Design and Simulation Software and an Audiovisual Room. It has also recently developed Biochemical Engineering laboratory.

Activities organized by department AY-2012-13

Name of the programme	Sponsored by	Date	Participants/delegates	Coordinator
PERMEATION 2012: One day Symposium on membrane separation in chemical & allied process industries	Charutar Vidya Mandal (CVM) Vallabh Vidyanagar	October 12, 2012	140 delegates from academic institution (Faculty members & UG/PGstudents)	Prof. Tejal M. Patel Prof. Anand V. Metre
Poster presentation on green energy and carbon foot print	Charutar Vidya Mandal (CVM) Vallabh Vidyanagar	October 12, 2012	33, Students delegates from GCET and nearby participated in various Chemical Engineering events	Prof. Tejal M Patel Prof. Anand V Metre

Industrial Visits Organized : AY-2012-13

Date	Name of the Industry	Units/sections visited	Participants	Total number of Participants
17/08/2012	Nirma Limited, Savli	Detergent Plant	Third Level CH Students Accompanying Faculty Members 1. Prof. D. V. Kapatel 2. Prof. V. B. Patel	33
17/08/2012	IFFCO, Kalol	Urea Plant	Third Level CH Students Accompanying Faculty Members 1. Dr. Suresh Panchani 2. Prof. Arpita A. Patel	32
23/08/2012	Meghmani Finechem Limited	Chlor alkali Plant	Second level CH Students Accompanying Faculty Members 1. Dr. R. R. Nagarajan 2. Prof. H. K. Dave	60
23/01/2012	SPRERI Vallabh Vidyanagar	Gasification Unit	Fourth level CH Students Accompanying Faculty Members 1. Prof. Vinay B. Patel 2. Prof. H. K. Dave	45
08/02/2013	Matangi Industries Limited	Dye and Dye intermediates	Second level CH Students Accompanying Faculty Members 1. Prof. Vinay B. Patel 2. Prof. H. K. Dave 3. Prof. Arpita A. Patel	53
26/02/2013	Shree Vadodara District cooperative Sugarcane Growers' Association	Sugar Factory	Third level CH Students Accompanying Faculty Members 1. Prof. Anand V. Metre 2. Dr. Suresh Panchani	55

Expert Lectures/ Seminars Organized (2012-2013)

Date	Name of the Resource person	Affiliation	Topic of talk
21/07/2012	Prof.Suchen B. Thakore	Department of Chemical Engineering, LD College of Engineering, Ahmedabad	Pressure vessel design
28/07/2012	Mr.Vihag Lalaji	Vice President (Splprojects) Ambuja Cement Ltd.	Key to successfully overcoming challenges in life
06/08/2012	Prof.Vasdev Singh	Former Professor of Chemical Engineering, M.S. University of Baroda	Design of Heat Exchangers : Fundamentals and advances
24/01/2013	Mr. Rajen Desai	International Coordinator, India, HTRI	How HTRI exposure can help Engineering students to decide the career-path and become Industry Ready
28/01/2013	Prof.Vasdev Singh	Formerly Professor, Dept of Chemical Engineering, the M. S. University of Borada	Exploration and drilling of crude petroleum
12/02/2013	Mr.Bharat Jain	Member Secretary, Gujarat Cleaner production Centre, Gandhingar	Cleaner Production and its application to industries

Research Publications by Faculty Members (AY - 2012-13)

1. Anand Metre and Kaushik Nath. Revisiting the trans-esterification process to produce biodiesel: Potential and Prgnosis. Journal of Surface Science & Technology (Inpress), 2013.
2. Kruti Sodha, Suresh C Panchani, and Kaushik Nath, Feasibility study of microbial regeneration of spent activated carbon sorbed with phenol using mixed bacterial culture. Ind. J Chem Tech. Vol 20, 2013,33-39. (IMPACT FACTOR: 0.606)
3. Kaushik Nath, Suresh Panchani, M.S Bhakhar and Sandip Chatrola, Preperation of activated carbons from the dried pods of Prosopis cineraria with zinc chloride activation for the removal of phenol. Env Sci & Pollution Research, (In Press) (DOI: 10.1007/s11356-012-1325) (IMPACT FACTOR: 2.651)
4. Tejal M Patel, Tanya Roy, Ankita Mishra and Kaushik Nath, Reclamation of dye waste water using a flat sheet nanofiltration membrane:Study of permeate flux and quality. J. Sci Ind. Res 71, 2012, 437-442. (IMPACT FACTOR: 0.587)
5. Tejal M Patel, Harsh Chheda, Abhisek Baheti, Punit Patel and Kaushik Nath, Comparative performance of flat sheet and spiral wound modules in the nanofiltration of reactive dye solution. Env Sci & Pollution Research, 19, 2012, 2994-3004 [02 Citation] (IMPACT FACTOR: 2.651)

Information Technology Department

Department established in : 1996

Faculty Details :

Prof.	: 01	Asso. Prof.	: 02
Asst. Prof.	: 07	Trainee Lecturer	: 09
Non-Teaching Staff Members	: 03		



Features of the Department :

Department Does have lab equipment worth above Rs. 1 Crore.

Department is managing web server and mail server for entire institute.

Major Achievements of the Department :

1. Hosted International Conference on Intelligent Systems and Signal Processing (ISSP 2013) on March 01-02, 2013, having technical assistance of IEEE.
2. Prof. (Dr.) Apurva Shah: Invited as a session Chair cum keynote speaker for the International conference on Advances in Computer and Information Technology organized by IRD India, 10/2/2013

Activities Organized by the Department : (AY 2012-13)

Sr. No.	Dates	Details Conference / Seminar / Workshop	Chief Coordinator	Beneficiaries
01	10th Oct, 2012	Expert Lecture on SAP-ERP Systems by Mr. Umang Soni	Nirav Raja/Jay Vala	Students
02	24th Oct, 2012	ISTE Staff Chapter: Applications of computer science in biological information processing by Abhinay Pandya	Miral Patel	Students
03	Oct. 10 to 19, 2012	E-Learning Course on Communication Skills	Mr. Nikhil Joshi	34 1st level CP students
04	February 15-16, 2013	Technical & Non-Technical event - PariskQ	Bhargesh Patel	172 1st & 2nd year students
05	March, 2-9, 2013	Fest Yuva	Mr. Nikhil Joshi	150 Students

Research Publications by Faculty Members : (AY 2012-13)

Sr. No.	Name of the Faculty	Title	Publication	Month & Year
01.	Prof. (Dr.) Apurva Shah	Energy Efficient Target Tracking in Wireless Sensor Network	International Journal of Advances in Engineering and Technology, pp. 542-549, Vol. 3(2)	July 2012
02.	Prof. (Dr.) Apurva Shah	Energy Efficient Resource Utilization In Cloud Computing Using Ant Colony Optimization (In National Conference Proceeding)	National Conference on Emerging Vistas of Technology in 21st Century	April 2012
03.	Prof. Nikhil Gondaliya	Misclassification penalties in associative classification	International Journal on engineering research and technology (IJERT)	September 2012
04.	Mr. Nikhil Joshi	Web, Blogs and Podcast for Teaching-Learning	International Journal of English: Literature, Language and Skills (ISSN 2278 0742)	July 2012
05.	Mr. Nikhil Joshi	Motivating Students by Innovative Teaching Style	International Journal of English Language Teaching & Literary Studies (A Biannual Peer Reviewed Refereed Online Journal- ISSN 2277-9213), Vol.1, No.2,	July-Dec 2012.
06.	Prof. Nirav Raja	A Novel Approach for Automatic Number Plate Recognition	International Conference on Intelligent Systems and Signal Processing (ISSP 2013)	March 2013
07.	Prof. Nirav Raja	A New Method for Network Lifetime Maximization in Wireless Sensor Network	International Journal of Advanced Research in Computer Science and Electronic engg. Volum 2, Issue 2, pp:200-204	Feb 2013
08.	Prof. Prem Balani Mr. Vishal Prajapati, Dr. Apurva Shah	Design Of New Scheduling Algorithm LLF_DM And Its Comparison With Existing EDF, LLF, DM Algorithms	International Conference on Intelligent Systems and Processing	March 2013
09.	Prof. Sejal Thakkar Mr. Yogesh N. Dangar	New Approach for Automatic Separation of ROI and BG in Crime Scene Images	International Journal of Advancements in Research & Technology (ISSN 2278-7763)	April 2013
10.	Prof. Sejal Thakkar Mr. Yogesh N. Dangar	Performance Analysis of Crime Images using CROI with Jpeg and Wavelet	International Journal of Scientific and Engineering Research (IJSER)	April 2013
11.	Ms. Vinita Shah	Non-destructive quality analysis of kamodoryza sativa sspindica (Indian rice) using machine learning technique	CSNT 2013, GWALIOR (M.P.)	April 2013

Mechanical Engineering Department

Department established in : 1997

Faculty Details :

Prof. : 02 Asso. Prof. : 08
Asst. Prof. : 06 Trainee Lecturen : 03
Non-Teaching Staff Mambers : 09



Features of the Department:

1. VFM 9100 Metzer Metavision Advanced Metallurgical microscope
2. FFT Analyser & accessories
3. CREO-2.0 (Pro-E): Engineering design and Simulation software
4. Minitab 16: Statistical Analysis software

Major Achievements of the Department:

1. Organized 1st International Conference on Emerging Trends in Mechanical Engineering (ICETME-2013) on 4-5 January 2013.

Activities Organized by the Department AY 2012-13

Sr. No.	Dates	Details Conference / Seminar / Workshop	Chief Coordinator	Beneficiaries
01	15/9/2012	Celebration of "Engineers' Day" (Topic: Yantrik Aarambh)	Dr. H R Thakkar	170 students participated from all branches from GCET, ADIT & BVM
02	17/9/2012	"One day Workshop on Aero-modeling" By Mr. Pankaj Paneria	Prof. Ela Jha	TY and Final year students
03	22/9/2012	Guest Lecture on The mechanical activities in space project by Mr. N J Bhatt, Scientist SAC, ISRO, Ahmedabad	Dr. M A Bulsara	PG, Final, Third level Mechanical Students
04	31/7/2012	Expert Lecture on Value Education by Dr. H R Thakkar	ISTE Student Chapter	FY Mech. Students
04	31/7/2012	Expert Lecture on Value Education by Dr. H R Thakkar	ISTE Student Chapter	FY Mech. Students

Research Publications by Faculty Members: (AY 2012-13)

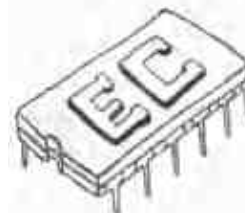
Sr. No.	Name of the Faculty	Title	Publication	Month & Year
01	Mrs. Ela Jha	Utilization and recycling of steel plant wastes.	National Conference at M. S. University	15-16 Sep. 2012
02	Prof. Vivek Deshpande & Prof. Sanjay C. Shah	Effect of Machining parameters on Surface roughness in EDM process using Taguchi Technique	Industrial Engg. Journal, Vol. V & Issue No. 9	September 2012
03	Prof. Sanjay C. Shah	Surface Roughness Modeling in Precision Turning of Aluminium by Polycrystalline Diamond Tool Using Response Surface Methodology	International Journal of Emerging Technology and Advanced Engineering, Volume 2, Issue 5	May 2012
04	Prof. Sanjay C. Shah	Analysis of Effect of Pulse On Time, Pulse Current and Gap Voltage on Surface Roughness using High Speed Steel as Work-piece Material and Copper as Electrode in Electric Discharge Machining Process Using Taguchi Technique	International Conference on Emerging Trends in Mechanical Engineering, at GCET, Gujarat (ISBN: 978-1-61233-6244)	January 2013
05	Prof. Ela Jha	Utilization of Steel Plant Wastes by Agglomeration: A Review		
06	Mr. Jaydeep M. Ravalji	Design and model preparation of ROV to define the principle of stability of a submerged body		

Electronics and Communication Department

Department established in : 1997

Faculty Derails :

Prof. : 01 Asso. Prof. : 06
Asst. Prof. : 13 Trainee Lecturer : 02
Non-Teaching Staff Members : 05



Features of the Department:

Major Achievements of the Department :

Sr.No.	Name Of Faculty	Achievement Details
01	Dr. Mehul B. Shah	Awarded(IETE S.K.Mitra Memorial Award in 2012) by the Council of the IETE for the BEST RESEARCH oriented PAPER titled “ Leveraging Pause Time Distributions for Stable Cluster-based Data Gathering in Multihop Cell Phone based Sensor Network”
02	Dr. Foram A. Shelat	Presented Paper in the International Journal of Mass Spectrometry , “Electron ionization of exotic molecular targets CN,C2N2,HCN,HNC & BF-Theoretical cross sections”
03	Mrs. Smita B Joshi	Presented Paper in the International Conference on “Solar Energy Photovoltaic” held at school of Electronics Engineering KIIT University ,Bhubaneswar ,Odisha, India
04	Mrs. Chetna K Shah	Awarded by GTU for achieving First position in the Degree of Master in Communication Engineering (19 Jan 2013).

Activities Organized by the Department: (AY 2012-13)

Sr. No.	Dates	Details Conference / Seminar / Workshop	Beneficiaries
01	17/07/12	Talk on 'DCS and its operation in power generation' from EC alumni Mr. Anand Patel	3rd and 4th year
02	25/09/12	'ELECTRONICA' an activity by 3rd EC students	2nd year
03	28/09/12	Project competition on 'Various Integrated Circuits and application'	3rd year
04	02/10/12	Workshop on 'MSP430 Processor'	4th year
05	09/10/12	Poster Competition on wireless, RF and Advanced communication Technologies	3rd year
06	18/10/12	Workshop on 'Foundation steps toward LATEX'	1ST year EC and IT(PG)
07	03/11/12	Symposium On 'Communication Technologies'	PG students

Research Publications by Faculty Members: (AY 2012-13)

Sr. No.	Name of the Faculty	Title	Publication	Month & Year
01	Falgun Thakkar, Mayur Sevak, Rahul Kher, Chintan Modi	CT image compression using compressive sensing and wavelet transform	International conference, IEEE (CSNT - 2012), Rajkot, Gujarat, India	2012
02	Falgun Thakkar, Kiran Parmar, Rahul Kher	Analysis of CT and MRI Image fusion using wavelet Transform	International conference, IEEE (CSNT - 2012), Rajkot, Gujarat, India	2012
03	Falgun Thakkar, Akanksha Mishra, Rahul Kher, Chintan Modi	Selecting the most favourable basis function for ECG signal compression using compressive sensing approach	International conference, IEEE (CSNT - 2012), Rajkot, Gujarat, India	2012
04	Falgun Thakkar, Akanksha Mishra, Rahul Kher, Chintan Modi	Comparative analysis of wavelet basis functions for ECG signal compression through compressive sensing	International journal of computer science and telecommunication [volume-3, issue-5, May2012].	2012
05	Falgun Thakkar, Akanksha Mishra, Rahul Kher, Chintan Modi	ECG signal compression using compressive sensing and wavelet transform	International conference on Engineering in Medicine and Biology Conference, under IEEE, (EMBC'12)(accepted)	2012
06	Falgun Thakkar, Mayur Sevak, Darshan Dalvadi,	A Survey of Various Applications of Compressive Sensing technique in Image processing	National conference on power systems, Embedded systems, power electronics, communication, control and instrumentation, 09-11 January-2012	2012
07	Dr. Chintan K Modi, Nirav Desai, Dharmesh Prajapati	A simple and Novel CBIR based algorithm for feature extraction of dental radiograph images	CSNT-2012, March 2012	2012
08	Dr. Chintan K Modi, Nirav Desai, Dharmesh Prajapati	A Simple and Novel Feature extraction technique for AM Dental Radiographs	National conference, SVIT VASAD-2012	2012
09	Latesh N. Patel, Kavindra R. Jain, Hitesh B. Shah, Chintan K. Modi	Evaluation of Nicotiana Tabacum (FCV) Quality Using Off-Line Machine Vision	ICMOC 12	2012

Sr. No.	Name of the Faculty	Title	Publication	Month & Year
10	Chetna V. Maheshwari, Kavindra R. Jain, Chintan K. Modi	Non-Destructive Quality Analysis Of Indian Basmati Oryza Sativa Ssp Indica(Rice) Using Image Processing	CSNT-2012, March 2012	2012
11	Chetna V. Maheshwari, Kavindra R. Jain, Chintan K. Modi	Non-Destructive Quality Analysis Of Indian Basmati Oryza Sativa Ssp Indica(Rice) Using Image Processing	IJCES(International Journal of Computer Engineering Science)	2012
12	Mehul R. Amin and Sameer D. Trapasiya	Performance optimization of MIMO in Space Time Block Coding Scheme.	Selected for the publication in International journal Elsevier, Science Direct in Aug-2012 through "International Conference on Modelling, Optimization and Computing held on 10th April 2012" Thuckalay, Suoth india	2012
13	Mehul R. Amin and Sameer D. Trapasiya	Review paper on " Space time coding Scheme for MIMO System"	Selected for the publication in International journal Elsevier, Science Direct in Aug-2012 through "International Conference on Modelling, Optimization and Computing held on 10th April 2012" Thuckalay, Suoth india	2012
14	Siddharth H. Pandya*, Foram A. Shelat, K.N. Joshipuraa, Bhushit G. Vaishnav	Electron ionization of exotic molecular targets CN, C2N2, HCN, HNC and BF Theoretical cross sections	International Journal of Mass Spectrometry xxx (2012),	2012
15	Dr. Chintan K Modi, Nirav Desai, Dharmesh Prajapati	A Simple and Novel Feature extraction technique for AM Dental Radiographs	National conference, SVIT VASAD-2012	2012
16	Latesh N. Patel, Kavindra R. Jain, Hitesh B. Shah, Chintan K. Modi	Evaluation of Nicotiana Tabacum (FCV) Quality Using Off-Line Machine Vision	ICMOC 12	2012
17	Chetna V. Maheshwari, Kavindra R. Jain, Chintan K. Modi	Non-Destructive Quality Analysis Of Indian Basmati Oryza Sativa Ssp Indica(Rice) Using Image Processing	CSNT-2012, March 2012	2012

Sr. No.	Name of the Faculty	Title	Publication	Month & Year
18	Prof. Bhaskar Thakkar	Monitoring Heart Disease and Diabetes with Mobile Internet Communications,"	International Journal of Telemedicine and Applications, vol. 2012, Article ID 195970, 12 pages, 2012. doi:10.1155/2012/195970	2012
19	Prof. Bhaskar Thakkar	Wrist Pulse Acquisition System	International Conference on Biomedical Engineering BioMed 2013, Innsbruck, Austria (Accepted)	2012
20	Falgun Thakkar, Jigar M Patel, Shobhit K Patel	Simulation of Microstrip Transmission Line Using ADS	National Conference on innovative and emerging Technology, NCIET-2013,	2013
21	Falgun Thakkar, Mital Ranpariya	based abnormality analysis of MRI brain Images	National conference on power systems, Embedded systems, power electronics, communication, control and instrumentation, January-2013	2013
22	Falgun Thakkar, Jigar M Patel, Shobhit K Patel	Design of S-Shaped Multiband Microstrip Patch Antenna	NUiCONE 2012, 3rd Nirma University International Conference on Engineering	2013
23	Falgun Thakkar, Mital Ranpariya	Wavelet based Abnormality Detection and Compression of MRI Images	International Journal of Emerging Trends in Electrical and Electronics, IJETEE-2013	2013
24	Rahul Kher, B V Thakkar	EEG signal estimation and enhancement using adaptive filtering	International Journal of Engg. Research & Technology	2013
25	Rahul Kher Sachin Darji	Motion artifacts detection from ambulatory ECG using wavelet transform	ISSP 2013, GCET, V V nagar	1-2 March 2013
26	Rahul Kher Vrajesh Patel	Analysis of Medical Fused Images with and without ROI using Wavelet Transform	ISSP 2013, GCET, V V nagar	1-2 March 2013

Mechatronics Engg. Department

Department established in : 1996

Faculty Details :

Prof.	: 02	Asso. Prof.	: 05
Asst. Prof.	: 02	Trainee Lecturers	: 03
Non-Teaching Staff Members	: 02		



Features of the Department :

The department offers B.E.(Mechtronics Engg.) program since 1998. Eleven batches have graduated till today. The laboratories such as Robotics, Mechtronics System, Computer Aided Manufacturing, Mechanical Measurements, Fluid Mechanics, Project Lab are fully developed and caters to mechanical and mechatronics students. The placement over the years have been encouraging. The students projects have been quite interesting and are based on industrial applications. Many of them have won number of competitions all over state and nation.

Major Achievements of the Department :

The department organized an International Conference on Innovations in Automation and Mechatronics Engineering 2013 (ICIAME2013) from 21-23 February 2013

Faculty achievements :

Dr. Anand Y Joshi has been appointed as a reviewer for the following Journals:

Current Nanoscience : Bentham Science Publishers.

Composite Part B: Elsevier Publishers

Appointed as an Expert Registry in the Nano Mission, Department of Science and Technology, Govt. of India. <http://nanomission.gov.in/>

Appointed as a Scientific Committee member for the International Conference on Nonlocal Mechanics of Composites (NONMECH2013), 23-25 October 2013 Istanbul, Turkey

Appointed as an Associate Editor for the Journal of Nanotechnology and Nanoscience, Bioinfo Publications.

One of the papers: entitled, "Vibration Signature Analysis of Single Walled Carbon Nanotube Based Nano Mechanical Sensors", published in Physica E: Low Dimensional systems & Nanostructures, 42, (8), 2010 2115-2123, Elsevier Publishers, has received 32 Citations, Citedas one of the Top 25 hottest articles of the Journal and currently is one of the most cited articles of the Journal since 2008.

H-Index of 5 and an I10 index of 3 for the papers published and citations.

Prof. Y.A. Chauhan was appointed as the GTU Team Manager to represent GTU at West Zone Inter University Youth Festival, organized by AIU at Veer Narmad South Gujarat University, Surat.

Dr. V N Patel developed a test rig for vibration monitoring of bearings, for the lab development of condition monitoring.

Activities Organized by the Department: (AY 2012-13)

Sr. No.	Dates	Details Conference / Seminar / Workshop	Chief Coordinator	Beneficiaries
01	25/07/2012	Demonstration lecture on Autodesk inventor 2012	Mr.Nirav Shah	Faculty of ME/MC
02	6th to 20th August, 2012	2-D Drafting through CAD	Prof. S M Sheth	2nd and 3rd Level ME/MC Students
03	04/09/2012	Carbon Nanotube based Sensor	Dr.Anand Y. Joshi	Faculty of MC
04	04/09/2012	Artificial Neural Network	Mr.Prashant Paramar	Faculty of MC
05	05/09/2012	Tribology	Prof. Ketan M. Tamboli	Faculty of MC
06	06/09/2012	Tool Condition Monitoring	Mr.Pathik P. Patel	Faculty of MC

Workshops/Training Programes Organized

Sr. No.	Event	Date	Coordinators	Beneficiaries
01	Aurora of robotics II - 'Basic Driver Circuits and wireless Robotics	4th and 5th February, 2012	Prof. S M Sheth	100 students of various levels and branches had participated
02	Aurora of robotics III "Basic Electronics and Semi autonomous robotics"	21st and 22nd April, 2012	Prof. S M Sheth	70 students of various levels and branches had participated
03	2-D Drafting through CAD	6th to 20th August, 2012	Prof. S M Sheth	2nd and 3rd Level ME/MC Students
03	2-D Drafting through CAD	6th to 20th August, 2012	Prof. S M Sheth	2nd and 3rd Level ME/MC Students

Research Publications by Faculty Members: (AY 2012-13)

Sr. No.	Name of the Faculty	Title	Publication	Month & Year
01	Bhavsar S N. et al	Experimental Investigation of Redeposition during Focused Ion Beam (FIB) Milling of High Speed Steel	Journal of the international societies for Precision Engineering and Nanotechnology, 36(3), 408-413.	2012
02	Bhavsar S N. et al	Machinability Study of Cemented Carbide using Focused Ion Beam (FIB) Milling	Taylor and Francis Journal of Materials and Manufacturing Processes.	2012
03	Anand Y. Joshi et al	Dynamic Analysis of Fixed-free Single walled Carbon Nanotube Based Bio-sensors Due to Various Viruses	IET- Nanobiotechnology, (DOI: 10.1049/iet-nbt.2011.0057).	2012
04	Anand Y. Joshi et al	Chaotic Response Analysis of Single-Walled Carbon Nanotube Due To Surface Deviations	NANO, 7, (2), 1250008/1 - 1250008/10, World Scientific Press.	2012
05	Patel V. N. et al	Vibration Studies of Dynamically Loaded Deep Groove Ball Bearings having Local Defect in Races	ASME, International Design Engineering Technical Conferences & Computers and Information Engineering Conference.	2012
06	Ajay M. Patel , Anand Y. Joshi	A Review on Nanosensors Developed using Carbon Nanotubes	International Conference on Innovations in Automation and Mechatronics Engineering 2013 (ICIAME2013)	2012
06	Ajay M. Patel , Anand Y. Joshi	A Review on Nanosensors Developed using Carbon Nanotubes	International Conference on Innovations in Automation and Mechatronics Engineering 2013 (ICIAME2013)	21-23 February 2013
07	Patel Ajay et al	Design of an Automated Storage and Retrieval Machine	International Conference on Innovations in Automation and Mechatronics Engineering 2013 (ICIAME2013)	21-23 February 2013
08	Anand Y. Joshi et al	Effect of vacancies on the mechanical properties of CNT based Composites	Journal of Nanomedicine and Nanotechnology, 3 (9), doi : 10.4172/2157-7439.S1.002	2012
09	Anand Y Joshi et al	Dynamic Analysis of Fixed-free Single -walled Carbon Nanotube Based Bio-sensors Due to Various Viruses	IET- Nanobiotechnology, 6 , (3), 115 121. (Impact Factor 1.857)	2012

Sr. No.	Name of the Faculty	Title	Publication	Month & Year
10	Sheth S M et al	Design of Quadcopter in Reconnaissance	International Conference on Innovations in Automation and Mechatronics Engineering 2013 (ICIAME2013)	21-23 February 2013
11	B. A. Doshi	Automation of Pump Test Rig	International Conference on Innovations in Automation and Mechatronics Engineering 2013 (ICIAME2013)	21-23 February 2013
12	Vinod Patel et al	Design of Test Rig for Vibration Monitoring of Rolling Elements Bearing	International Conference on Innovations in Automation and Mechatronics Engineering 2013 (ICIAME2013)	21-23 February 2013
13	Sanket N. Bhavsar et al	Actuation of Pneumatic & Hydraulic System using DTMF Technology	International Conference on Innovations in Automation and Mechatronics Engineering 2013 (ICIAME2013)	21-23 February 2013



Computer Engineering Department

Department established in : 1999

Faculty Details :

Asso.Prof. : 02 Asst. Prof. : 08
Trainees Lecturers : 03 Non-Teaching Staff Member : 03



Features of the Department :

- Ample learning opportunity.
- Well-equipped Laboratories.
- Most of the faculty members possess post graduate qualification.

Major Achievements of the Department :

- Accredited by National board of Accreditation, New Delhi.

Activities Organized by the Department AY 2012-13

Sr. No.	Dates	Details Conference / Seminar / Workshop	Chief Coordinator	Beneficiaries
01.	11th October 2012	Workshop of "Basics of MATLAB Programming "	Ms. Kinjal Joshi	All 4th and 3rd Year Engineering Students
02.	1st November 2012	National level Workshop of "Basics of MATLAB Programming"	Ms. Kinjal Joshi & Ms. Namrata Dave	All College 3rd and 4th year Engineering Students
03.	15th October 2012	One day workshop on "How Real World Computer Network works ? "	Prof.Priyang Bhatt & Prof. Brijesh Patel	All College 3rd Year IT, CP & EC Engineering Students
04.	29th & 30th January 2013	Two day workshop on " QT-cross Platform Language "	Mr. Bhargav Patel & Mr. Rajesh Ahir	Final Year Computer Engg. Students
05.	23rd & 24th Feb 2013	Sparxs'13	Prof.Hetal Gaudani & Ms.Devangi Doshi	465 students from all CVM engg. institutes

Research Publications by Faculty Members : AY 2012-13

Sr. No.	Name of the Faculty	Title	Publication	Month & Year
01	Prof.Maulika Patel	"Data mining Tools for Proteomic Research"	DDU Journal of Technology and Management	2012
02	Prof. Nitesh Sureja	"High Performance Computing : A Survey	International Journal of Advanced Research in Computer Engineering & Technology (IJARCET)	Volume 1, Issue 9, Nov. 2012
03	Prof. Nitesh Sureja	"New Inspirations in Nature : A Survey"	International Journal of Computer Applications & Information Technology	Volume I, Issue III Oct. 2012
04	Prof. Bhargav Patel	"Smart 3D Video Coding"	3DTV-Conference : the true vision-capture, transmission and display of 3D Video (3DTV-CON) 2012	15-17th Oct. 2012 Pages(1-4)
05	Prof. Maulika Patel	Protein sequence similarity search technique suitable for parallel implementation	International journal of Computer Application (IJCA)	July 2012
06	Prof Nitesh Sureja	An ACO Approach to solve a Variant of TSP	International Journal of Advanced Research in Computer Engineering & Technology (IJARCET)	Volume 1, Issue 5, July 2012

Electrical Engineering Department

Department established in : 2001

Faculty Details :

Asso. Prof. : 07 Asst. Prf. : 08
 Trainee Lecturers : 01
 Non-Tecaching Staff Members : 04



Features of the Department :

- Department is associated with professional bodies like SPE(I), IEEE, ISTE and ISA and carries out numbers of activities throughout the year.
- Department has state of the art laboratories with all testing facilities and latest equipments.
- The High Voltage Lab, Electric Machine Lab and Power System Protection Lab have unique features.

Major Achievements of the Department :

- Department is accredited by NBA (National Board of Accreditation) for 3 years.

Activities Organized by the Department : AY 2012-13

Sr. No.	Dates	Details Conference / Seminar / Workshop	Chief Coordinator	Beneficiaries
01	February 2013	MATLAB Workshop for beginners	Prof. I A Sheikh & Prof. C R Patel	2nd Year Electrical Students

Research Publications by Faculty Members : AY 2012-13

Sr. No.	Name of the Faculty	Title	Publication	Month & Year
01.	Prof. Vijay Makwana	A New Digital Distance Relaying Scheme for Compensation of High-Resistance Faults on Transmission Line	IEEE Power Delivery	October 2012
02.	Prof. Ritesh Patel	Effect of humidity on the Complex Permittivity of Epoxy-based Nanodielectrics with Metal oxide Fillers	European Transactions on Electrical Power", Wiley Publication	In Press

Civil & Structural Engineering Department and Mathematics Department

Department established in : 1996

Faculty Details:

Prof.	: 01	Asso. Prof.	: 04
Asst. Prof.	: 08		
Non-Teaching Staff Members	: 04		



Features of Departmental Infrastructure :

(Example: Worth considering lab features)

There are three laboratories in the Department. They are :

1. Elements of Civil engineering Lab.: In this laboratory various surveying instruments are available. Instruments like dumpy level, theodolite, Compass, chain etc. are used for conducting practical for linear and angular measurements.
2. Strength of materials lab.: Universal Testing Machine having a capacity of 1000kN is available in the lab, in which different materials like wood, metal, concrete etc can be tested to find out various mechanical properties. Various tests like compression test, shear test, tension test, transverse test etc can be performed. Other tests conducted in the lab include Brinell hardness test, torsion test and izod impact test.
3. Engineering Mechanics Lab.: In this lab, different instruments like universal force table, Friction apparatus, single purchase winch crab, Fly wheel, bending moment apparatus, Truss etc. are available to find out different parameters of mechanics.

Major Achievements of Department: AY 2012-13

- Dr. Khadeeja Priyan published a book titled “Sustainable Water Management of Meghal River Basin- A Gujarat Based Study”, LAMBERT Academic Publishing, Germany.
- Prof. Snehal Popli Published the fifth edition of “Basics of Environmental Studies” in July 2012 in Mahajan Publishing House.
- Prof. Vipul R. Shah was a co-author of textbook and self-learning book of 12th std Semester IV, published by Government of Gujarat Textbook Education Borad, Gandhinagar.

Activities organized by department: AY 2012-13

Sr. No.	Dates	Details Conference / Seminar / Workshop	Chief Coordinator	Beneficiaries
01.	2nd & 3rd Nov. 2012	Srinivasa Ramanujan Expert Lecture series	Prof. Rajesh C. Sanghvi & Prof. Hetal Soneji	All 1st & 2nd level Students
02.	1st Sem. AY-2013	certificate course 'Advanced Strength on Materials'	Prof. Kumarpal Trivedi,	3rd Level ME Students

Research Publications by Faculty Members AY 2012-13

Sr. No.	Name of the Faculty	Title	Publication	Month & Year
01.	Prof. Vipul R Shah Prof. Rajesh Sanghvi	Blending of Traditional Approach and Internet Technology to Teach Engineering Mathematics	Asian Technology Conference in Mathematics (ATCM 2012) Bangkok, Thailand	16-20 December, 2012
02.	Prof. Hetal Soneji Prof. Rajesh Sanghvi	Towards the Improvement of Cuckoo Search Algorithm	World Congress on Information and Communication Technology WICT 2012	Oct.30-31, Nov.1-2 2012

Recent Attainments @ GCET

Prof. Kaushik Nath, Head, Department of Chemical Engineering received grant of Rs. 11.65 Lakh for AICTE MODROB scheme.

Prof. Mukesh Bhesaniya from the Department of Electrical Engineering received grant of Rs. 8.5 Lakh for AICTE MODROB scheme.

Institute got approval to start Post Graduate Program in Embedded Systems under the Department of Electronics & Communication Engineering and in Power Systems under Department of Electrical Engineering.

NPTEL Workshp @ GCET

GCET hosted a half day workshop on awareness of “National Programme on Technology Enhanced Learning (NPTEL) web resources on Feb-9, 2013. It was Government of India sponsored collaborative educational programme and presented by Mr. Nizar Ahemad, representing 'Classle', a partner with NPTEL.

Many technical and management curriculum based courses are jointly prepared by 7 IITs and IISc Bangalore, which are freely available at NPTEL website. The objective of the programme was to increase awareness about the availability of these literatures and recommended for more usage by faculties and students.

Around 60 faculties and 30 students participated in the programme. Few faculties were invited from nearby institutions also. Chairman Dr. C L Patel and Principal Dr. Himanshu Soni took active interest for the conduct of the programme. Prof. Hemant Thakkar and Prof. Rahul Kher co-ordinated the programme.

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Placement Summery

As on 09th March 2013

Sr. No.	Name of Industries	Package (L/A)	CH	IT	ME	EC	MC	CP	EE	Total
1	Alstom Pvt. Ltd.	5			2		1			3
2	E-Infochip	1.8-3.5				4		2		6
3	Elitecore Tech Ltd.	3		1				1		2
4	Godrej Ind. Ltd.	3.3					2		1	3
5	Indian Army (SSB)	-	1			5		2	2	10
6	Infostretch	3		1				2		3
7	KOTHARI Infotech	3		1						1
8	Larsen And Toubro	3.75	2		6		3		7	18
9	Tata Consultancy Services	3.16	2	1	1	10	4	7		25
10	TBEA Energy Pvt. Ltd.	3.6			2	0			3	5
11	Omega Sea Swervices	14	2		2	1	4	1	1	11
12	Essar Group	3	2							2
13	TORRENT POWER	3							3	3
14	Atul Ltd.	3	4		1			1	1	7
15	CMC(CJET/EDGE)	-		10		9	4	13		36
16	L & T ECC	-			1				1	2
	TOTAL		13	14	16	29	18	29	18	137

Training & Placement Officer :

Mr. S. K. Rai

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ISTE-Staff Chapter-Activity (AY 2012-13)



Sr. No.	Title of Activity	Date	No. of participants	Name of co-ordinator
01.	A Performance Comparison of different UDP variants for streaming media applications	04/09/2012	30	Prof. Nitesh Sureja
02.	RSS Based Stability Enhanced Routing protocol for Mobile Ad Hoc Networks	06/09/2012	44	Prof. Nitesh Sureja
03.	Design and development of bit-stream containing multi-view video and associate depth maps - Enabling 3D video	08/09/2012	35	Prof. Nitesh Sureja
04.	Applications of computer science in biological information processing	24/08/2012	32	Prof. Tejal patel
05.	An expert Lecture on " Introduction of SAP"	10/08/2012	44	Prof. Ajay Patel
06.	Carbon Nano tube based Sensor	04/09/2012	56	Prof. Ajay Patel
07.	Artificial Neural Network	05/09/2012	42	Prof. Ajay Patel
08.	Tribology	05/09/2012	36	Prof. Ajay Patel
09.	Tool Condition Monitoring	06/09/2012	42	Prof. Ajay Patel
10.	Art of Living	05/09/2012	42	Prof. Ela Jha
11.	Theory of Karma	06/09/2012	56	Prof. Ela Jha
12.	Hydraulic Machines	07/09/2012	50	Prof. Ela Jha
13.	Mathematica Software	02/11/2012	50	Prof. Rajesh Sanghvi
14.	Mathematica Software	03/11/2012	50	Prof. Hetal Soneji

Faculty Coordinator : **Dr. Suresh Pachani**
 sureshpachani@gcet.ac.in



Activity Report of ISTE Student Chapter

Sr. No.	Title of the Activity	Date	Name of Experts Conveners & Coordinators		Beneficiary
1.	Expert Lecture. " Today's industrial trend"	05/01/2012	Under guidance of Prof.Rahul Kher(EC)	Parth Joshi(ISTE St. chap. Chairman)	50
2.	Project presentation competition for 2nd level student Workshop of LabVIEW	22/01/2012 02/11/2012	Under guidance of Prof. Rahul Kher(EC) Prof.Kavindr Jain & Prof.Sammer Trapasiya	Parth Joshi (ISTE St.chap. Chairman)	30 30
3.	Enigma'12(10 events)	27 & 28/01/2012	Faculty convener Prof.Nirav Raja(IT)	Vatsal Thakkar (09 IT)	1200
4.	Einstinct'12 (3 Expert lecture, 10 Technical & 3 Non Technical Events)	23 & 24/03/2012	Faculty convener Prof.Rahul Kher (EC)	Parth Joshi (09 EC) Abhise Kothari(09 EC) Jenil Javeri (09 EE) Poorav Upadhyay(09 EC)	1300
5.	Workshop of LabVIEW Workshop of MSP430 Controller	25/05/2012 25/05/2012	Expert from National Instruments Expert from Texas Instruments	Einstinct'12 Team Einstinct'12 Team	51 31
6.	Workshop of Image Processing	25/05/2012	Utpal Solanki (08 EC)	Einstinct'12 Team	56
7.	Expert Lecture of grid operation	28/07/2012	Prof. N.D. Makawana	Bhavya Shah (09 EE)	30
8.	Poster Presentation Wire-less, RF and advanced communication Technology	09/10/2012	Sameer Trapasiya, Falgun Thakkar and Knvindra Jain	3rd Year E.C. Students	30
9.	Lecture on " Value Eduction"	31/07/2012	Prof. Hemant R. Thakkar	First Level Mechanical Students	--
10.	Introduction to ISTE & Welcome by GCET	31/07/2012	Student of Final Year ME	First Level Mechanical Students	--
11.	Workshop on Aero - modelling	17/09/2012	Prof. Ela Jha	For GCET Student	--

Faculty Coordinator :
Prof. Vijay Makvana
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GCET IEEE Student Branch



Title of Event	Participant	Start Date	End Date
IEEE Awareness Seminar and Orientation	68	02/01/2012	02/01/2012
Expert Talk on "Sensors and Its Applications"	290 Plus	09/01/2012	09/01/2012
Membership Drive	120 Plus	20/01/2012	20/01/2012
A one day Workshop on LabVIEW	40	09/02/2012	09/02/2012
A one day Coding Competition "Code-o-mania"	90	26/02/2012	26/02/2012
A one day Workshop on MSP 430 series Micro controller and MSP 430 Launch Pad	50	22/01/2012	22/01/2012
A one day Workshop on "introduction to PLC and SCADA"	120 Plus	04/02/2012	04/02/2012
Prents Teacher Meetings		04/03/2012	04/03/2012
Industrial Visit to GSWAN, BISAG Gandhinagar	65	18/04/2012	18/04/2012
A one day workshop on "introduction to ARDUINO"	60	27/07/2012	27/07/2012
Students Technical Awareness Conference - 2012	320	17/08/2012	18/08/2012
Expert Lecture on SAPERP System	120 Plus	10/10/2012	10/10/2012
Confianza - A Mock Interview	148	12/10/2012	13/10/2012
End Semester Meet MILAP'12	0	07/11/2012	07/11/2012

Faculty Coordinator :
Prof. Rakesh Patel
 GCET IEEE Student Branch
 rakeshmpatel@gcet.ac.in

Sampark



SAMPARK is an annual IEEE Gujarat Section event organized jointly by student branches of IEEE Gujarat Section where all the student members showcase IEEE activities carried out by their respective student branches and plan the activities for the year ahead. On 17th Feb, SAMPARK 2013, the annual meet of IEEE Gujarat Section in association with GUJCOST & DST, was organised by GCET Student Branch at G. H. Patel College of Engineering and Technology, Vallabh Vidyanagar. The event provided an arena for the young volunteers to share and discuss the ideas and views with Gujarat Section Executive Committee. The outcome leads to well-managed activities throughout the year. The main motto of SAMPARK was to increase the interaction and networking between different Student Branches in Gujarat. SAMPARK is a common platform where new ideas from each student branch are accepted, as well as past problems are resolved. The faculty from various student branches shared their experiences too, with the students and they merge with the contemporary scenario of engineering.



Students from different student branches like DAIICT, GCET, NIRMA, PDP, DDU, MARWADI, DJMIT, MBICT, B.H.GARDI, LDRP, UVP and CSPIT were present to attend the annual meeting. It was an outstanding effort by the non-IEEE members, who attended SAMPARK 2013, who wanted to initiate and form an entity in their own institute.

It was established in the office by Dr. Suman Mitra, Chair IEEE Gujarat Section. The Report counted in the student activity report for 2012, events held under the name of Gujarat Section and event participation at Asia-Pacific level. It provides an insight to the maturity and achievements of Gujarat Section. This was followed by an inspirational speech by Dr. Mitra. His word motivated every being present in the arena and the environment was filled with positive energy. He illustrated the significance of participation in any event over winning. His advices lead us a way to reach to zenith. Though, his personal counsel was to prepare a team over a year, which would look after the proper working and functioning of an entity for time yet to come.

The Best Student Branch Award was won by DA-IICT Student Branch. The next award for Membership Growth was bagged by GCET.

The event marked the felicitation of two students for their outstanding contribution for growing the membership in their respective Student Branch by Gujarat Section. This recognition was received by the following students:



Outstanding Volunteer 2012:
Kavan Joshi
GCET IEEE SB
Membership Growth
Award from IEEE
MGA R 10 SAC.



Outstanding Volunteer 2012:
Shreya Rajani
MEFGI IEEE SB
Membership Growth
Award from IEEE
MGA R 10 SAC.

Vote of Thanks was delivered by Prof. Rakesh M Patel. A group photo, which truly represented the enthusiasm of Sampark 2013, concluded the event. It was an overwhelming moment for all of us.

Faculty Coordinator :
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IChE Students' Chapter Report



Activities Organized under the IChE Students' Chapter: (AY 2012-13)

Sr. No.	Dates	Details Conference / Seminar / Workshop	Chief Coordinator	Beneficiaries
1.	April, 10 2012	Quimico ' 2012	IChE Chairman Prof. M.S. Bhakhar	About 88 Student from Final and Prefinal Year Participated.
2.	October, 12 2012	Poster Presentation on Carbon Footprint	Prof. Anand Metre and Prof. Tejal Patel	153 Participants

Faculty Coordinator :
Prof. M.S. Bhakhar
 mathurkumarbhakhar@gcet.ac.in

Carbon Footprint Club Report



Activities Organized under the Carbon Footprint Club: (AY 2012-13)

Sr. No.	Dates	Details Conference / Seminar / Workshop	Chief Coordinator	Beneficiaries
1.	12th Oct., 2012	Poster Presentation on Carbon Footprint	Prof. Anand Metre and Prof. Tejal Patel	153 participants
2.	8th March, 2013	Poster & Rangoli Competition	Prof. M.S. Bhakhar and Prof. Tejal Patel	-----

Faculty Coordinator :
Prof. Tejal Patel
 tejalpatel@gcet.ac.in



Prarambh - The Project Club

INTRODUCTION

PRARAMBH, The GCET Project club, was founded on 18th July, 2007 to host events about the broad culture of engineering in a workshop based setting. PRARAMBH is an intersection of all engineering disciplines, broadening and strengthening individual member's impact and providing collective knowledge pool for the engineering.

The purpose of the club is to motivate young engineers in the challenges and fun of science, technology and engineering by encouraging them to exercise their skills in practical world through working as a team. PRARAMBH provides platform to the students participating in various technical and co-curricular events. Many workshops, to enhance the technical skill, provide hands on and to aware students about the latest technology, were organized by club. The workshops were delivered by experts, various pass out students and current student coordinators of Prarambh club.

Since its inception almost 1550 students were guided in various areas by PRARAMBH team in order to enhance their technical skills. PRARAMBH runs under the professional guidance of Prof. Saurin Sheth, faculty in charge, with his team of 18 students from various fields of engineering are working with full enthusiasm. The guided students of PRARAMBH have participated in numerous events organized by various colleges in different states across the country like DDIT, CIT-CHANGA, M.S.UNIVERSITY, NIRMA, IIT-BOMBAY, SVNIT SURAT, SVIT-VASAD, BITS-PILANI, BITS- GOA, MIT-Pune, IIT-Kanpur, IIT-kharagpur and many more.

Over the time various eminent personalities, like Dr. Mayal Nema, Scientist E, DRDO, Prof. N M Vyas, Head Mechatronics Department, IIT Kanpur, an Expert from Nigeria had visited and appreciated the quality of work that is performed by the club. They were impressed by seeing the synergy between various disciplines and also among various levels of engineering, and undertaking the mantel of working and solving real world problems , that's been performed by the club.

Major Achievements

JED-I Project Challenge

The national level project challenge called Joy, Engineering, Design and Innovation (JED-I) was held at IISc- Bangalore on 15th June, 2012. In this competition the R&D UDP Project floated by Prarambh "Tri-Netra: A Wearable Device for Defense Robotics" developed by Utpal Solanki and Swapnil Solanki, secured the Best Project Award in Electrical Division and prize worth Rs. 70000/-. Tri- Netra is a wearable and remote controlled robot which can be controlled by specific body gestures like head and eye movement with special sensors.

Robowars 2013

GCET Ranked Top 10

WINNING STREAK CONTINUES FOR GCET ON NATIONAL PLATFORM

G. H. Patel College of Engineering and Technology had participated in national level event of ROBOWARS '13 hosted by IIT MUMBAI from 3rd to 5th January 2013. The target was to disable the opponent's robot by damaging it, pinning it or by means of handicapping it. Every year at national level around 300 teams participate in this competition; selection process was based on the abstract and videos of the robot. The GCET team was one of the 71 teams selected for further combat rounds and the team due to its great efforts, was able to reach in TOP 10 in INDIA and 1st in Gujarat. Team Apophis defeated bots from NIT-Raipur, Shivaji Raje University Pune (Last year's Semifinalist). Team also fought against winner and runners up of IIT-B Robowars. Under tutelage of Prof. Saurin Sheth, two final year students Hitesh Basantani and

Keyur Bhadani along with four third year students Neel Patel, Madhav Kumar, Neel Amin and Shashank Patel from Mechatronics department started the work. Team had started from designing the robot in software to its modelling and then implementing it in tangible form. The weight of robot is around 60 kg with dimensions 850mmx730mmx550mm. With power supply (24 V) onboard and various other constraints kept in mind, team had to vigorously brainstorm ideas for bringing out accuracy in achieving the task. Team had worked for 3 months and would like to thank CVM Chairman Dr. C.L. Patel Sir for his generous funding and GCET Principal Dr. Himanshu Soni for providing ample support. Team is having high hopes to continue bringing glory for GCET.

ROBOCON 2013 TOP 18 IN INDIA

G. H. Patel College of Engineering and Technology participated in International level event, ROBOCON '13 hosted by Asia Broadcasting Union from 7th to 9th March 2013 at MIT Pune. The target is to complete the given task (theme: GREEN PLANET) in 3 minutes, released by this year's host country, Vietnam. Every year at national level in India around 80 teams participate to qualify for international competition held in host country. The inception of idea to participate in this competition was done in October 2012. Under tutelage of Prof. Saurin Sheth, 11 final year students, Mr. Rahul Goradia, a faculty member from EC along with 16 juniors from various facets of engineering, Mechatronics, Electronics and Communication, Mechanical, Computer and Electrical departments started the work. Right from interfacing of Arduino controller with sensors, motors and pneumatics to making various mechanical designs, 2 robots were devised. The combined weight of 2 robots, Manual and Automatic robot should not exceed 40 kg respectively. With power supply (24 V) onboard and various other constraints kept in mind, team had to vigorously brainstorm ideas for bringing out accuracy in achieving the task.

In the first elimination round GCET defeated Pune Institute of Computer Technology {PICT}, Pune by 10 points. In the second round we defeated University of Petroleum, Dehradun by 90 points and we squeezed our way in top 18 teams out of 81 from the entire nation. The second round, super league, was quite challenging. GCET Robocon team secured 17th position all over India and 2nd in Gujarat.

QUADROPTER (UAV)

UDP offered by Prarambh :PRARAMBH Club had offered an R &D UDP project on Unmanned Aerial Vehicle (UAV) to Dhaval Patel, Gokul Gabhawala and Arwa Kapadiya. They were guided by Prof. Nilesh H. Desai and Prof. Saurin M Sheth. This project is an UAV with a purpose for surveillance. The Project is selected at national level JED-I project challenge for presentation.



ROBOCON 2012 BEST ROOKIE AWARD - GCET

G. H. Patel College of Engineering and Technology participated first time in International level event of ROBOCON '12 hosted by Asia Broadcasting Union from 1st to 3rd March 2012 at MIT Pune. The target is to complete the given task (theme: bun snatching) of 'Peng on Dai Gat' in 3 minutes, released by this year's host country, Hong Kong. Every year at national level in India around 70 teams participate to qualify for international competition held in host country. The inception of idea to participate in this competition was done in October 2011. Under tutelage of Prof. Saurin Sheth, 6 final year students along with 15 juniors from various facets of engineering, Mechatronics, Electronics and Communication, Mechanical and Electrical departments started the work. Right from interfacing of Arduino controller with sensors, motors and pneumatics to making various mechanical designs, 3 robots were devised. The combined weight of 3 robots, Manual, Collector and Automatic robot should not exceed 50 kg with dimensions below 1.5Mx1Mx1.5M, 1Mx1Mx1.3M, 1Mx1Mx1M respectively. With power supply (24 V) onboard and various other constraints kept in mind, team had to vigorously brainstorm ideas for bringing out accuracy in achieving the task.

In the first elimination round GCET squeezed its way in top 18 teams out of 77 from the entire nation. The second round, super league, was quite challenging. GCET Robocon team secured 10th position all over India with was awarded as BEST ROOKIE AWARD.

ROBOWARS 2012

GCET SECURES TOP 8 AT NATIONAL LEVEL IIT-B Techfest AND FIRST IN GUJARAT

The patience and perseverance of 6 students guided by a faculty of G.H. Patel college of Engineering and Technology (A CVM Institution), paid off with a difference. Diablo has its roots from its very weapon, now consisting of 6 hammers. With ability to rotate in both directions at 4000 RPM, it made a tumultuous twister in its vicinity. Undoubtedly many modifications were made in Hammerhead, guided by Prof. Saurin Sheth who gave his valuable advices turning every unturned leaf to a betterment of machine. The motivation and support received from Dr. C.L. Patel sir, Chairman CVM and Principal Dr. Himanshu Soni was excellent.

The team skirmished several infeasibility related to design and with substantial brainstorming, a potpourri of improved versions were materialized. A 4 wheeled monster with courageously outrageous weapon consisting of 6 hammers had its onset. The shortcomings Diablo were tested well by its end of 3 months of manufacturing. All set to turn heads with credo, "Do and let other Die", the newer version of Hammerhead, was ready to make hell, one of hell. Journey to the centre of excitement started on 4th January 2012. Out of 200 abstracts and videos, only 70 teams were short listed across INDIA.

The first round was with CHARUSAT University, Changa. Second round for top 32 teams was with Hirasagar Institute of Technology, Belgaum. For top 16 teams, the third round was with Dehradun Institute of Technology (Army college), Dehradun. Final round for Diablo was with Shivaji University, Mumbai. With all major ups and downs, passionate team Diablo had it all. The dream of topping was achieved. Though it could be termed as a lesser win, the history will be repeated it future. More ideas, learning and experience will be implemented next time. When ideas meet passion, a dream is dreamed with reality, achieved.

ROBOWARS 2011

FIRST RUNNERS UP IN INDIA

G.H. Patel College of Engineering and Technology (GCET), a Charutar Vidya Mandal Institution won the 2nd place in Robowars- a national level event, held during Techfest 2011, 7th-9th January at Indian Institute of Technology- Powai, Bombay. The competition Robowars wherein robots loaded with weapons fight against each other in this energetic event. Institutes from different state of country participate in Robowars.

During Techfest 2011, GCET participated in Robowars with the Robot "Hammer-head" driven by a 6 wheel drive and weapon as 4 hammers rotating at the speed of 4300 rpm. Six students Swapnil Solanki, Utpal Solanki, Milan Patel, Parshad Patel, Vishal Patel and Jay Rupapara from Electronics & Communication and Mechatronics department made the robot within six months with adequate time to practice. They were guided by faculty, Mr. Saurin Sheth, whose enormous support, physical presence and positive guidance was mind blowing. The robot fought with minimal damage till the last match. It was for the first time any college from Gujarat stood to this national level in Robowars.

2nd Runner Up and Best shooting mechanism award in Robocop 2011 at IIT- Kharagpur

An independent thought, a directed move and autonomy regained. Success terminated at a competition where speed weighed but innovation mattered more. A potpourri of creativity and all it was that won IIT-Kharagpur and its team. Idea was to develop an autonomous machine with capability to shoot down the objects. Team of Parshad Patel, Vishal Patel in guidance of Prof Saurin Sheth able to win the 2nd Runner Up

and Best shooting mechanism at IIT- KHARAGPUR. Finally a conclusion, much awaited than known, of making a pneumatic gun was conceived. Marble loaded gun with an effective range of 70 feet at 6 bar pressure, perhaps with accuracy of 1 cm was materialized in January 2011. A compressor, a cylinder, two DCV and gun with reloading capacity was all set to blow off its victim. And finally the problem statement of Robocop was thoroughly practiced, to follow the line, aim, reload and shoot down only red cardboard cylinders of 1.2 meters and 15 cm diameter, from many green and red in the arena. A machine for military application was all it could be summed as.

Maverick stood third, but it was the only machine that blew off the criminals without any physical contact. But the brighter side to the night competition was, along with 3rd position, team was awarded with “Best Shooting Mechanism”, which formally was for another competition of Balista, but innovation played its part. Maverick got a meritorious felicitation in their closing ceremony.

Robowars 2010

Prarambh coordinators participated in IIT-B Tech fest 2010 in Robowars. The 'Demolisher' had a pneumatic primary weapon. Demolisher recorded the fastest victory; it threw away the opponents robots weighing 40 kg within 7 seconds and won the match.

INTERNATIONAL CONFERENCE ON SIGNALS, SYSTEMS AND AUTOMATION (ICSSA-11)

Prarambh presented various winning projects to the delegates and eminent speakers across the globe during the Second International Conference on Signals, Systems and Automation (ICSSA-11) held on 24th and 25th January, 2011 organized by EC Department. Many positive inputs were given by delegates and experts.

Vidhyog 2011

Prarambh The GCET Project Club demonstrated various R&D projects at the state level expo Vidhyog'11 held at V. U. Nagar during 9th 13th February, 2011 and received an award for rendering outstanding services in making VIDYOG 2011 a grand success, by presenting various innovative projects. GCET won the best stall in the entire education category.

Workshops

ARDUINO - A MICRO CONTROLLER: ARDUINO -A Microcontroller is an advance step in building a robot. The workshop was held on 13th & 14th October, 2012. In this workshop the content was How to select the controller, How to generate HEX File, How to load the program, Interfacing with LCD, Sensors, Motors, PWM, etc were nicely taught with hands-on sessions. Arduino is extensively used in controlling the various functionality of the robot. Due to its easy interfacing and its support for easier higher language programming makes its professional's first choice when it comes to micro controller, especially in embedded system. A special display was arranged to display the robot sent IIT - Bombay. More than 90 students from across the state participated in the workshop and gained skill of using Arduino.

AURORA 1: BASICS OF WIRED ROBOTICS: This workshop was organized on 24rd & 25th November, 2012 focused on enhancing primary skills of making a simple wired wire connection of DPDT switches. In practice, it is usually an electro-mechanical system which, by its appearance or movements, conveys a sense that it has intent or agency of its own. The workshop creates passions it the budding engineers. Robot is a synergic system of the core concepts of mechanical, electrical and electronics, and computing technologies. More than 180 students from various disciplines participated in this workshop.

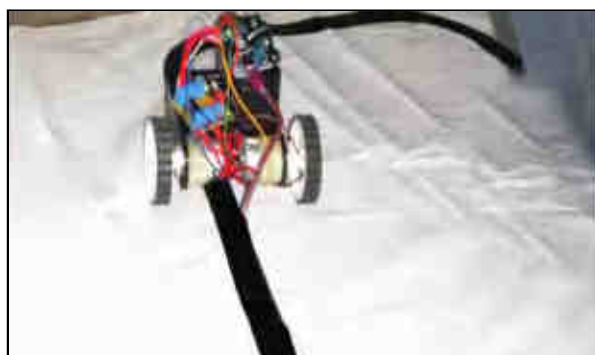
AURORA II: BASICS OF WIRELESS ROBOTICS: After working on the wired robot next comes wireless robot. We devised the wireless interface by using transmitter and receiver circuit. The workshop teaches the motor driver circuits, its concepts and application with hand-on sessions. Other challenges faced were making



the robot robust, compact and light weight as much as possible. Participants were provided with basic kit along with L293d segment and H bridge circuit. They were taught how to solder the components. They were also taught to make relay circuits. By construction such simple circuits the participants develop valuable skill. More than 100 students participated for this workshop.

ALLIANCE OF PRARAMBH WITH OTHER CHAPTERS AND SOCIETIES

Prarambh project club joins hands with other societies of GCET to uplift the knowledge delivered to students. ISTE students' chapter and IEEE society are the main collaborators. Every year many events and workshops are organized by them.



Power Fiesta 2013

Electrical Engineering Department of GCET has organized Power fiesta on 26th -27th February 2013 in which Prarambh The GCET project club displayed different type of robots and various winning projects. The main purpose of that stall was to spread awareness among the students coming from various colleges of Vallabh Vidyanagar. Various Robots of the club were displayed and were explained to the students with the motive to increase the technical awareness and develop interest in them to pursue application of theoretical studies.

Coordinator :
Prof. Saurin Sheth
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PRARAMBH

THE GCET PROJECT CLUB



THE WINNING STREAK CONTINUES FOR GCET...
SECURING A PLACE IN TOP 10 IN INDIA AND FIRST IN GUJARAT

ROBOWARS
FATAL COMBAT @ IIT-B

TEAM Apophis

GCET
Gujarat College of Engineering & Technology

ROUND-1
VS NIT-RAIPUR

ROUND-2
VS SHIVAJI RAJE, HANAYACHERA

ROUND-3
VS PVPIT, PUNE

ROUND-4
VS IIT-B & CHATTISGARH

Robowars '13 at IIT-Bombay



Team Robocon '13 / 2nd in Gujarat & Top 18 in India



Team Robocon '12 Best Rookie Award



Robowars '12 / Top 8 in India



Robowars '11 / 1st Runners Up at IIT-Bombay



Team Robocon 2012 at GCET with Principal

GCET Language Club



Spring: Painting Exhibition



Spring: Painting Exhibition



**Karma Konekt: Guest Talk by Swami
Nikhilshwaranandaji**



**Real to Reel: Movie Making
Workshop with Abhishek Jain,
Director of 'Kevi Rite Jaish'**



e-Learning Course



Trip to Karamsad



Guitar Workshop



Real to Reel: Movie Making Workshop with Jayesh Dave, renowned script writer



Kalam: Creative Writing Workshop with Mukesh Modi, renowned columnist



Kalam: Creative Writing Workshop with Vipul Sharma, Tarak Mehta Ka Ooltah Chshma fame script writer



Soor Shabad Ne Sathvare: Poetry Recitation Evening (from left to right) Ashok Chavda, Chandresh Makwana, Snehal Joshi, Hardwar Goswami, Prashant Jadav



Participants of Creative Writing Workshop



Face-a-book : 2 day book fair



Musical Performance in Soor Shabad Ne Sathvare



Path to Pride: Visit to Sardar Memorial at Karamsad



Path to Pride: Visit to Sardar Patel's House at Karamsad



Tune In: Guitar Workshop



GCET Language Club Team



Mr. Nikhil Joshi, Coordinator, GCET Language Club in Fest Yuva

GCET Language Club



Brief Report of the event: 'Fest Yuva'

GCET Language Club organized an event 'Fest Yuva' during March 4-9, 2013 which was a bunch of creative events with an objective of shaping the guts of the students under the guidance of renowned experts. This event was a huge success.

On March 4, 2013 at 10:00 a.m. the first event 'Spring'-painting exhibition was inaugurated by principal Dr. Himanshu Soni and Kanu Patel, a renowned artist. 60 paintings by 20 artists and 8 sculptures by 3 artists were displayed in this exhibition. On the same day in the evening at 04:30 p.m. in 'Karma Konnect', Swami Nikhileshwaranandaji, Head, Ramkrishna Mission, Vadodara Center delivered a talk on 'Youth: The Power of the Nation'. A huge gathering of GCET students attended this talk.

On March 5-6, 2013, in 'Real to Reel'- Movie Making Workshop, on the first day Mr. Abhishek Jain, Director of first urban Gujarati movie 'Kevi Rite Jaish' conducted a session and on the second day Mr. Jayesh Dave, a renowned script writer addressed the participants. Both of them shared their expertise with all young participants and guided them on movie making. There was a tremendous response from the participants for this event.

March 7-8, 2013 were spared for two different events like 'Kalam'-Creative Writing Workshop and 'Face-a-book'-2 day book fair. In Creative Writing Workshop, Tarak Maheta Ka Ooltah Chashma fame script writer Mr. Vipul Sharma and a successful columnist Mr. Mukesh Modi delivered their talks on March 7, 2013. Along with this for both the days a book-fair was also organized in which 10 publications like Cengage, Jaico, PHI, MacMillan, Tata McGraw Hill, Pearson, Wiley, Taylor & Francis, Orient and Navbharat displayed a wide range of publications including technical and non-technical both.

On March 8, 2013 a novel idea was executed in the event 'Soor Shabad Ne Sathvare' for the first time ever at GCET. Five renowned poets were invited for poetry recitation and their works were composed by Mr. Nikhil Joshi, Coordinator, GCET Language Club. This event was a rare combination of poetry and music at GCET. Hardwar Goswami, Chandresh Makwana, Prashant Jadav, Ashok Chavda, Snehal Joshi and Nikhil Joshi recited their poetry and the students of GCET along with Nikhil Joshi performed on the composed works with music. Being a technical institute, even though the audience was not in a huge strength, those who attended the event, appreciated it a lot. Five selected students : Harita Rupapara, Anand Parmar, Ajinkya Mahajan, Jigar Malaviya, Solanki Jainish also recited their poems in this event. Students who sang for the event are: Parth, Vraj, Yash, Devang and Dhvani.

March 9, 2013, on the last day of Fest Yuva in 'Tune In', Guitar workshop was held during noon time. Mr. Vishal Solanki, a renowned guitarist trained the participants with certain tips and guidelines on playing guitar. Mr. Vishal has played in live concerts with Coke Studio team and Rahat Fateh Ali as well. In the afternoon, 'Path to Pride'- a visit to Sardar Patel's house and Sardar Memorial at Karamsad was organized in which students watched a documentary film at memorial and felt the pride of being on the land of Sardar Patel. The event was conceived by Mr. Nikhil Joshi, Coordinator, GCET Language Club and a team of student coordinators executed the entire event with their genuine concern and unconditional efforts. Sandeep, Dharmendra, Chirag, Sagar, Jayesh, Jitesh, Keval, Riddhi, Shubham, Abhishek, Kevin, Sahar worked really very hard to make this event a huge success.

- www.gcet-languageclub.blogspot.in
- <http://gcet.ac.in/Activities/GLC/lclub-gcetweb/gcet.htm>

Coordinator :
Prof. Nikhil Joshi
languageclub@gcet.ac.in

Society of Power Engineers



Sr. No.	Name of the Event	Date	Participant	Coordinator
1.	POWER FIESTA'13	Feb-26,27 2013	BVM, ADIT, GCET & Other Colleges	EE department
2.	Mind Spark- Presentation Event	Feb-12 2013	1st & 2nd Year electrical student.	Prof.Ishaq Sheikh
3.	Matlab workshop for the beginners	Feb- 6-9, 2013	2nd year electrical students	EE department
4.	Power pact	August - 22, 2012	1st & 2nd Year GCET students.	Prof.Ritesh Patel & Prof.Ishaq Sheikh

Faculty Coordinator :
Prof.Ritesh Patel
riteshpatel@gcet.ac.in

Activities organized by ASME Student Section in alliance with ISTE Student Chapter



Engineers' Week Celebration : 18 to 21 February, 2013

Sr. No.	Day/Time	Event	Beneficiaries
1.	18 Feb' 2013 4:30-5:30	Expert Lecture on "Patent Application Awareness" by Dr. M A Bulasra (GCET)	100 ME & MC students
2.	19 Feb' 2013 4:30-5:30	Expert Lecture on "Lean Manufacturing Technology" by Mr. Hamang Kelavia (Mac Power CNC, Rajkot)	49 ME & MC Students
3.	20-21, Feb' 2013 4:00-8:00	Workshop on "Adobe Photoshop" by Mr. Tarun Darji (Hare Krishna Computer Education)	47 All branches Students
4.	20-21 Feb' 2013 3:00-7:00	Workshop on "MAT LAB" by Prof. Shankar Parmar (GCET)	47 EC & MC Students

Faculty Coordinator :
Dr. Hemant R Thakkar
GCET ASME Student Section
hemantthakkar@gcet.ac.in

Personality Development Program : (AY 2012-13)

To equip our students with 21st century skills, our Institute is organizing various Personality Development Programmes (PDP). PDP is intended to improve the communication skills, soft skills of students. The objective of this programme is to create positive attitude among the students to work in the dynamic environment of their professional carrier. Various kinds of training are given to them by professional and HR experts. Programmes are conducted by Career Development Centre, CVM and Globberena Technologies Pvt. Ltd. since 2005. This program is mandatory for all the students.

Following are the modules conducted by CDC and Globberena.

Sr. No.	Activity	Date	Beneficiary	Hours	Content
1.	Training Interview by CDC	29/07/12	All third Year	4 Hrs each	Mock Interview
2.	PDP Classes by Globarena	17/09/12 & 20/09/12	Final Year Students (IT, EE, EC)	4 Hrs each	Important interview questions, Cotpotate Etiquette1 (Email, Cell Phone, Telephone), Corporate Etiquette2 (Professional, Office)
		18/09/12 & 21/09/12	Final Year Students (CH, ME, MC & CP)	4 Hrs each	
3.	PDP Classes by CDC	24/09/12 & 25/09/12	Second Year Students (IT, CP, EC)	12 Hrs each	GD & GD Competition. Skit & Skit Competition
		26/09/12 & 27/09/12	CH, ME, ME & EE		
4.	Seminar by Planet Education	28/09/12	All third & Final Year	1 Hrs each	Courses for Changing World " And "Advantages of Studying in top 1% Universities of the World
5.	Education Abroad Roadshow	05/02/13	All Final Year Students	10 am to 5 pm	One to One interaction with university representatie, On the Spot application assessment for admission Eligibility.
6.	PDP Classes by CDC	25/02/13 & 26/02/13	First Year Students EC, IT, CP, CH	12 Hrs each	Art of Introduction, News reporting, Nonverbal Communication & Public Speacking
		27/02/13 & 28/02/13	MC, ME		
7.	PDP Classes by Globarena	25/02/13 & 26/02/13	Third Year Students IT, CP & ME	12 Hrs each	Aptitude 1, Resume writhig, Introduction to Interview Introduction to GD
		27/02/13 & 28/02/13	MC, EC, CH & EE		

Prof. Krupal Parikh
 PDP Coordinator, GCET
 krupalparikh@gcet.ac.in

Social Activity Report

Academic Year 2012-13 (First Term)

Event	Date	Supporting Body	Total Participation	Beneficiaries
Blood Donation Camp	23/08/2012	Indian Red Cross Society, Anand	200 Students & Staff Participated From all Departments	Needy People
Poster Presentation & Invited Lecture On "Tobacco Awareness"	11/09/2012	Dr. Himanshu Sharma Krishna Hospital Karamsad	Around 200 Students & Faculties	Students & Faculties
Invited Spiritual Talk " Art of Living"	31/08/2012	Dr. Mayur Khunti, Sumit Kundargi Trainer from Art of Living	50 Students & Faculties participated	Students & Faculties

Academic Year 2012-13 (Second Term)

Event	Date	Supporting Body	Total Participation	Beneficiaries
"Students' Career counseling" seminars	February 2013	GCET Management	Visited different schools like RPTP, D N, KKV etc.	Class 12 Students of Various Schools
Blood Donation Camp	11/3/2013	A D Gorwala Blood Bank, Karamsad	110 students & staff participated from all departments	Needy People

Social Activity Committee

Prof. Dr. Hemant R. Thakker (ME)

Prof. Ishaq Shaikh (EE)

Prof. Nirav Desai (EC)



Women Development Cell



Features of the Committee :

Collegiate Women's Development Committee was constituted in the College on 08-03-2011 as per the instruction of Gujarat Technological University. This committee organizes various developmental activities for female staff members and students.

Sr. No.	Dates	Details Conference / Seminar / Workshop	Chief Coordinator	Beneficiaries
01.	30/10/2012	Expert Talk on " Adolescent Health and Sexually Transmitted Infections" by Dr.Manisha Gohel, Pramukh Swami Medical College, Karamsad.	Dr.Khadeeja Priyan & Prof. Tejal M. Patel	Female Staff Members and students of GCET
02.	27/12/2012	Expert Talk on " An Introduction to Meditation" by Ms. Pooja Patel, Samarpan Meditation.	Dr.Khadeeja Priyan & Prof. Tejal M. Patel	Female Staff Members
03.	08/03/2013	International Women's Day	Dr. Khadeeja Priyan, Prof. Snehal Popli & Ms. Miral Patel Ms. Suman Upadyay (Student Coordinator)	Female Staff members and students

Faculty Coordinator :
Dr.Khadeeja Priyan
 khadeejapriyan@gcet.ac.in

Report of Sports Activities during AY : 2012-2013



In the current year GCET has not only maintained but further improved its image on the sports front of Gujarat Technological University and at several other places.

G.T.U. Zonal Tournament (Inter-College):

Gujarat technological University conducted mega sports event named Spirit-2012.

After rigorous selection procedure, teams were selected for each event for representing the college.

GTU conducted many sports events during the current year 2012-2013 and G.H.Patel College of Engineering & Technology took part in all events. The events were first conducted at inter college level at five different zones, in which we participated in Vidyanagar Zone.

The report of all those sports activities conducted along with position of our college at the Zonal levels is given below :

1. Kabaddi (MEN) Champions

This event was organized by A.D.I.T College at Shastri Maidan, Vallabh Vidyanagar. GCET college team participated and stood champions at the inter college tournament at the zonal levels.

The names of participants are as follows :

Naitik Mistry, Chaitanya Patel, Parth Soni, Dhruvil Valera, Akash Purohit, Dhruv Bhoi, Ishan Shah, Dipen Patel, Aman Kukadiya, Aditya Patel, Nitin Shah, Kaushal Patel

2. Basket Ball (Men) - Champions

This event was organized by A.D.I.T College at Shashtri Maidan, Vidyanagar. GCET college team participated and stood champions at the inter college tournament at the zonal levels.

The names of participants are as follows:

Aayush Valega, Mipandeeep Mehta, Ilesh Kharadi, Jainish Jadav, Taral Rathod, Chintan Metha, Divyang Jadeja, Paritosh Desai, Sabestian, Abhilash Shah, Het Patel

3. Badminton (Men) Champions

This event was organized by GCET College at H M Patel Badminton Court, Vallabh Vidyanagar. GCET college team participated and stood champions at the inter college tournament at the zonal levels.

The names of participants are as follow:

Soham Maiti, Jay Trivedi, Setu Patel, Maulik Kawor, Karan Avasthi, Ankit Patel, Nimesh Vala

4. Badminton (Women) Runners-up

This event was organized by GCET College at H M Patel Badminton Court, Vallabh Vidyanagar, GCET college team participated and stood runners-up at the inter college tournament at the zonal levels.

The names of participants are as follows:

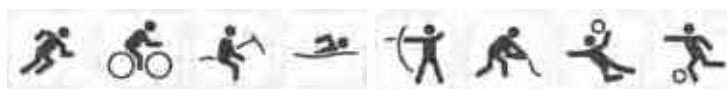
Shweta Singh, Namrata Subhash, Mansi Katariya, Maitry Patel

5. Chess Runners-up

This event was organized by SVIT Vasad. GCET college team participated and stood runners-up at the inter college tournament at the zonal levels.

The names of participants are as follows:

Kapil Hirani, Nakul Shah, Divyesh D, Bharat Dodiya, Pratik Gadoya.



G.T.U. Inter-Zonal Tournament :

1. Basket Ball (Men) Runners-Up

It was held at LJIT Ahmedabad during 2nd to 4th October, 2012.

Our GCET college team were participated and got 2nd rank in Gujarat state in GTU basket ball (men) Tournament. GCET College lifted runners up trophy.

The names of participants are as follows:

Aayush Valega, Mipandee Mehta, Ilesh Kharadi, Jainish Jadav, Taral Rathod, Chintan Metha, Divyang Jadeja, Paritosh Desai, Sabastian, Abhilash Shah, Het Patel

2. Badminton (Men) Runners-up

It was held at GCET College Vallabh Vidyanagar during 27TH and 28TH August 2012. GCET college team were participated and got 2nd rank in Gujarat state in GTU Badminton (men) Tournament .GCET college lifted runners-up trophy for the 2nd consecutive time.

The names of participants are as follow:

Soham Maiti, Jay Trivedi, Setu Patel, Maulik Kawor, Karan Avasthi, Ankit Patel, Nimesh Vala

3. Lawn tennis (Men) Champions

It was held at LD Engineering College Ahmedabad during 7TH to 8TH December, 2012.

Our GCET college team participated and secured 3rd position in Gujarat state in GTU Lawn tennis (men) tournament.

The names of participants are as follows:

Jeet Desai, Sharansh Shah, Kenith Shah, Eklavya Bhatt

State Level Inter College Tournament :

It was held at PDPU Gandhinagar during 23rd to 27th January 2013. Our GCET Volley Ball College team participated and secured 3rd position.

The names of participants are as follow:

Patel Akshay, Yash Dave, Melvin Gamit, Harsh Thakkar, Apurv Panchal, Mayur Chaudhary, Patel Milan, Jainish Shukla

West zone inter university Cricket Tournament :

It was held at MS University, Vadodara during 18TH to 22 December, 2012. Our GCET college student Avinash Patel was the captain of GTU team and gave satisfactory performance in the west zone Cricket Tournament.

West zone inter university Basket Ball Tournament:

It was held at Sardar Patel University, Vallabh Vidyanagar Gujarat during 14TH to 17 October, 2012.

Our GCET college students Aayush Valega, Ilesh Kharadi and Abhilash Shah were a part of GTU team and Ilesh was the captain of the GTU team. They gave satisfactory performance in the west zone Basket Ball tournament. Dr. Vijay Gurjar, Assistant Professor was appointed as the Manager in West Zone Inter-University Basket Ball Tournament at Vallabh Vidyanagar and again was appointed as coach cum manager in All India Inter-University Rifle and Shooting Tournament at Amritsar Punjab.

Interbranch competition :

Like every year we organized various interbranch sports events like Cricket, Football, Kabaddi, Basket ball, Volleyball, Badminton, Table tennis and Chess for the development of sports culture in the college campus.

GCET volleyball Men and Women, Table Tennis and Cricket team participated in zonal tournaments and gave satisfactory performance. Setu Patel 4th year Electrical student was selected to participate for All India inter-university Badminton Tournament held at Gwalior.



Dr. Vijay Gurjar
 Covener, Sports Activities
 vijaygurjar@gcet.ac.in

S N DESAI GCET LIBRARY

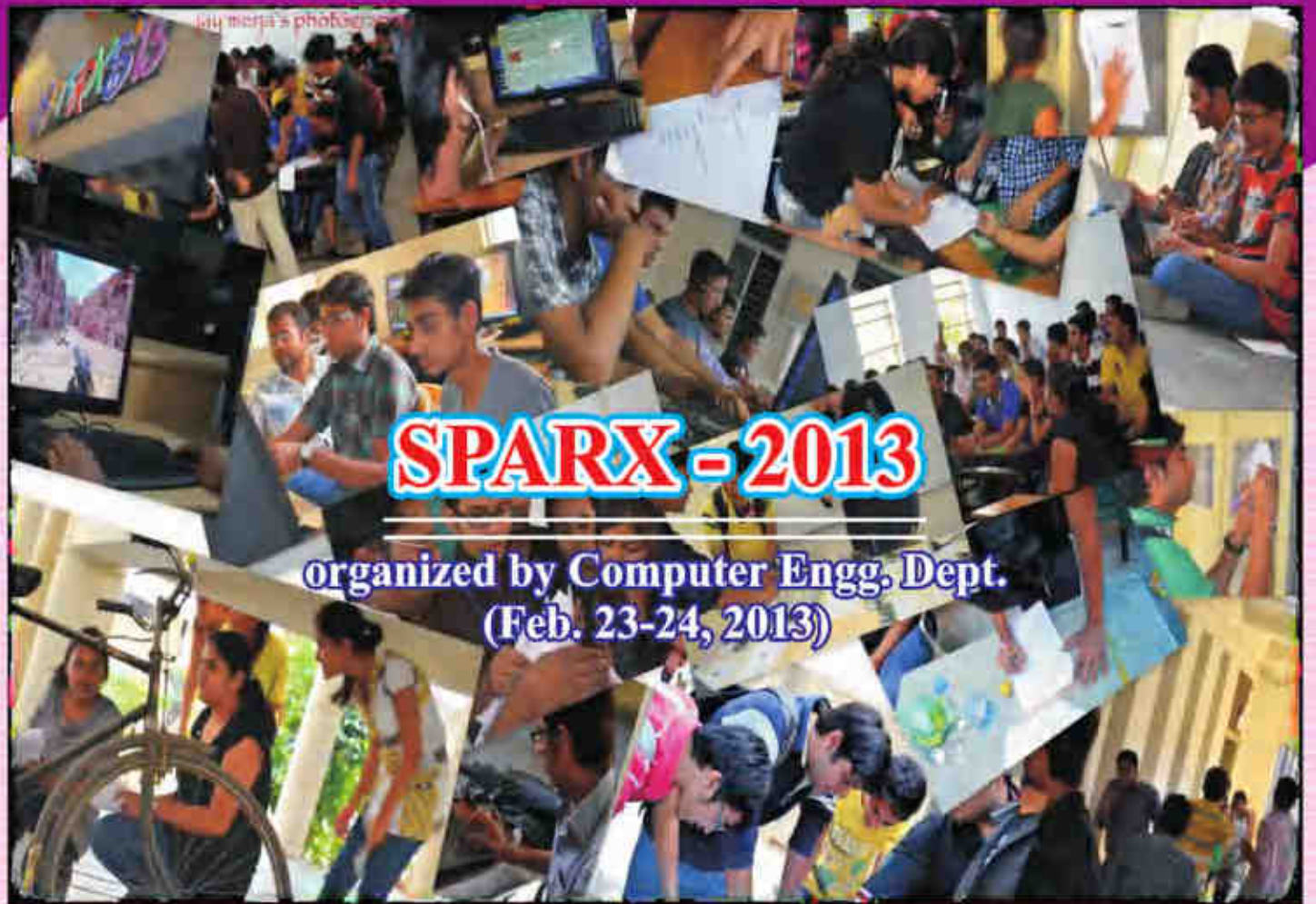
Sr. No.	Department	Books		Reference Book		Journal/Magazine	
		Title	Volume	Title	Volume	National	International
01	Mathematics	550	1942	71	87	4	2
02	Chemical Engineering	1065	2623	238	260	14	4
03	Civil Engineering	517	1621	73	77	8	1
04	Electronics & Comm. & Electrical Engg.	2362	6484	316	330	13	11
05	Mechanical & Mechatronics Engg.	2340	6693	293	313	19	16
06	Information Tech. & Computer Engg.	4105	7589	253	264	7	7
07	General	1186	1812	158	162	26	1
		12125	28764	1402	1493	91	42

2539 (1839 books CD + 700 Periodical CD)

News Letter /Bulletin: 4, Magazine: 24, News Papers: 10 (4 Gujarati, 5 English, 1 Employments News)

E - Journals		Web Address
1.	IEEE ASSP Online	http://www.ieee.org/ieeexplore
2.	Springer Comp. & Elect	www.springerlink.com
3.	ASME	http://asmedl.org
4.	ASTM Digital Library	http://enterprise.astm.org/
5.	Elsevier - Science Direct	www.sciencedirect.com
6.	Mc - Graw Hill	http://2.accessengineeringlibrary.com
7.	J - gate Engineering	http://www.jgateplus





SPARX-2013

organized by Computer Engg. Dept.
(Feb. 23-24, 2013)



Women's Day Celebration

Skit Performance & Rangoli Competition

March 08, 2013



Garba Sandhya @ GCET

Nov. 03, 2012



A Report of Cultural Activities: (AY : 2012-13)

Following are the achievements of TEAM-GCET on the cultural front.

GTU Youth Festival : Zonal Youth Festival XITIJ-2012 :

Date: 21st, 22nd & 23rd September, 2012

Venue: Parul institute of engineering-Baroda

GCET made its mark by winning the youth festival and with its stupendous performances created bench mark among 25 participating colleges with over 800 participants at the zonal level.

Sr. No.	Name Of The Event	Category	Position Secured
1.	Classical Instrumental (Non-Percussion)	Music	1st
2.	Indian Group Song	Music	1st
3.	Light Vocal Solo	Music	1st
4.	Western Group Song	Music	1st
5.	Folk Orchestra	Music	1st
6.	On The Spot Painting	Fine Arts	1st
7.	Poster Making	Fine Arts	1st
8.	Cartooning	Fine Arts	1st
9.	Folk Dance	Dance	1st
10.	Western Vocal Solo	Music	1st
11.	Debate	Literary	2nd
12.	Collage	Fine Arts	2nd
13.	Classical Vocal Solo	Music	3rd
14.	Classical Instrumental (Percussion)	Music	3rd
15.	One Act	Theatres	3rd
16.	Rangoli	Fine Arts	3rd
17.	Classical Dance	Dance	3rd

Total no. of trophies : 20

Total no. of winner trophies : 13

Total no. of runners-up trophies : 7

GCET was declared the OVERALL CHAMPIONS as well as grabbed CHAMPIONSHIP TROPHY IN FINE ARTS, MUSIC AND DANCE CATEGORY.



GTU Inter Zonal Youth Festival XITIJ-2012 :

Date: 11th, 12th & 13th October, 2012

Venue: L. J. Group of Institutes, Sanand, Ahmedabad

GCET exhibited once again with mind blowing performances and raised its own bar by winning following events.

Sr. No.	Name Of The Event	Category	Position Secured
1.	Western Group Song	Music	1st
2.	Folk Orchestra	Music	1st
3.	Westren Vocal Solo	Music	1st
4.	Collage	Fine Arts	1st
5.	One Act	Theatres	1st
6.	Rangoli	Fine Arts	1st
7.	Cartooning	Fine Arts	2nd
8.	Classical Instrumental (Percussion)	Music	3rd

Total no. of trophies: 11

Total no. of medals: 27 Gold Medals, 1 Silver Medal and 1 Bronze Medal

GCET was declared the OVERALL CHAMPIONS consecutive for the second time, as well as grabbed CHAMPIONSHIP TROPHY IN FINE ARTS & MUSIC CATEGORY.

The team leaders were Vatsal Thakkar, Final Year IT, Aliasgar Vilayatwala, Final Year Electrical and Shweta Singh, Final Year IT.

WEST ZONE INTERUNIVERSITY YOUTH FESTIVAL

Nine of our students were selected to represent GTU in the West Zone Inter University Youth Festival held at Veer Narmad South Gujarat University, Surat in association with AIU, Ministry of HRD from 27th to 31st December, 2012. Our students were the part of One act play, Mime, Skit, Western group song, Western vocal- solo, Indian group song, Folk Orchestra and Photography etc. Following are the events in which our students were the part of team and GTU won positions :

Sr. No.	Name Of The Event	Category	Position Secured
1.	Mime	Theatres	1st
2.	Western Vocal Solo	Music	3rd

This is a great achievement of GCET students as the Universities from Gujarat, Maharashtra, Rajasthan and Goa were participating in this festival. Prof. Yogesh Chauhan was appointed as a Team Manager of the GTU team. Under his guidance all theatre events and music events were prepared at GCET. The names of students selected for West Zone are as under :

Sr. No.	Name	Year & Branch	Events
1.	Vatsal Thakar	Final IT	One act play, Skit, Photography
2.	Aliasgar Vilayatwala	Final EE	One act play, Skit, Folk orchestra
3.	Shweta Singh	Final IT	Western group song, folk orchestra
4.	Sahil Desai	Third ME	One act play Mime
5.	Abhishek Chauhan	Second EE	One act play, Mime, Folk orchestra, Western group song
6.	Daxa Sakhawala	Third CP	Indian group song, Western group song, Folk orchestra
7.	Dhyey Vachharajani	Third EE	Western Vocal-solo, Western group song, Indian group song, Folk orchestra
8.	Hitarth Patel	Second ME	Western group song, Western Vocal-Solo, Folk orchestra, Quiz
9.	Brinda Desai	Third IT	One act play

National Inter University Youth Festival :

Two of our students Sahil Desai, Third Year ME and Abhishek Chauhan, Second Year EE, were selected to participate (to represent GTU) at the National Level Inter University Youth Festival in the event of Mime. It's a matter of pride for GCET that these students secured third position in the mime competition. The festival was organized by Kalyani University, Kalyani, West Bengal from 5th to 9th February, 2013.

Garba Sandhya,2012 :

To celebrate divine festival of Navratri, like every year, this year also a Garba Sandhya was held. Boys & girls including staff members celebrated the function with true spirit. Prof. (Dr.) Hitesh Shah (EC) was the Faculty Coordinator. Parth Shah and Preet Desai of final year EC were the student Coordinators.

Volcano Inter College Youth Festival :

This year Volcano- an inter college youth festival was organized by Rotary Club, Anand from 19th to 22nd February, 2013. Team GCET participated in all 21 events and won first position in vocal-solo, Treasure Hunt, Rangoli, Movie Scene enactment, Antakshari and second position in Skit, Group Song, G.K.Quiz, Assemblage, Boogie Woogie and Ad Enactment. Over and above based on the points scored GCET was awarded the First Runners up trophy. The team leaders were again Aliasgar Vilayatwala, Vatsal Thakkar and Shweta Singh.

Cultural Convener
Dr.Yogesh Chauhan
 yogeshchauhan@gcet.ac.in



Alumni Feedback to GCET

By **Chetan Desale**
08 Batch of EE

Hello Everyone..!!! It's good to see that GCET Voice is back and back with a bang..!!

For those who don't know me, I am Chetan Desale from 08 Batch of Electrical Engg. I have been asked to give my feedback but words are not enough to describe the four golden years spent in GCET.

The time spent at GCET had given me some really invaluable & lifelong friends & memories. Apart from day to day lectures, the extra activities in the college had really helped me in developing lots of skills. Apart from techfests, at this point I would like to mention two such activities i.e. Society of Power Engineers & GCET Annual Day. I was associated with both these activities from 2nd year and had seen all the activities done from bottom to top. At one side where SPE taught me how to work in team & manage time (we hardly bunked classes for doing SPE related activities) while at other side working in the team of Annual Day has taught me how to work with different kinds of people. Now whenever I am interacting with my juniors, the memories splash across my mind leaving a gentle smile on my face & a drop of tear in eyes.

Talking about the faculties of GCET especially of EE department, I don't have words. Those are the best faculties I have ever come across. Dedicated to work and always ready to help (I had even asked doubts to RRP Sir when he was working late night and he was there to help). At this platform, on behalf of all my friends of 08EE, I heartily thank all the faculties of EE Dept and of GCET as well.

For all my juniors, I wish you all a very best of luck for your future. Go ahead and achieve all your dreams.

By **Sagar Sadatia**
Alumni

Dear friends,

I am sagar sadatia from Final year Mechanical. I am very glad that i have spent 4 important year in this college which actually was a turning point of my life. Regarding the educational things, GCET is one of the best self financed institutes in Gujarat. Here students get best possible education but besides that campus environment teaches us the way of living which you hardly find in any college. Here the Faculties are so inspirational that they taught student how to think beyond as we can do. All in one i would like to say that GCET is full with experienced faculties, superb laboratory. I am proud to be GCETIAN..

By **Phaneendra**
08 ME 318

Dear Sirs,

Sitting in the office i really miss my college days. College life is the most cherished moment in a person's life and GCET has made my college life more memorable. GCET as a college is an efficient factory churning out bright engineers every year and the "MECHANICAL" dept ranks higher in this regard. "The lecturers & proffesors" are the strong pillars who are responsible for the name & fame of the college. The lecturers are cooperative and helpful. I am heavily indebted to all my lecturers & the college, as it is because of them that today I am in the reputed league of people called "Engineers". "AM PROUD TO BE GCETIAN"

By Chhatralia Nirav
08 ME

Indescribable were the joys of my college life. The life full of fun, knowledge and the endless happiness I had shared with my friends and professors. I really miss those days. The gossips at the foyer and enjoying the lectures in our own ways.

Talking about the campus of GCET, an enchanting lawns were a great beauty, campus was large and imposing, friends were loving and chatty and professors models of kindness. The memories of the celebration of Garba Sandhya and Annual Functions still flashes my mind bringing a big smile on face.

Motivating Lines for all Students

By Vikash Fernandes
08-CH

1. 'Your time is limited; don't waste it living someone else's life. Don't be trapped by dogma, which is living the result of other people's thinking. Don't let the noise of other's opinion drowned your own inner voice. And most important, have the courage to follow your heart and intuition, they somehow already know what you truly want to become. Everything else is secondary.'
2. 'Don't say you don't have enough time. You have exactly the same number of hours per day that were given to Helen Keller, Pasteur, Michelangelo, Mother Teresa, Leonardo da Vinci, Thomas Jefferson, and Albert Einstein.'
3. If you don't go after what you want, you'll never have it. If you don't ask, the answer is always no. If you don't step forward, you're always in the same place.

By Ravikumar Thakkar
4th ME

It has been four very short years in GCET for me. When I first got into this magical space on 20th July, 2009, I was crowded with big aliens called 'Engineers' of this generation. The creativity and excellence I saw in their eyes were certainly fabulous. Though college seemed a bit small to me, when I got into the classroom and started the lecture I felt a great responsiveness to change from college infrastructure to the quality of teaching. We were explored to the every branch of the engineering and to faculty of every branch in the first year and it was just a superb experience at that time. Other than teaching, I dug the different facilities like canteen, library and internet zone(where I had lost my bag). Canteen was a bit tough place to sit and have snacks but in a way I was maintaining it.

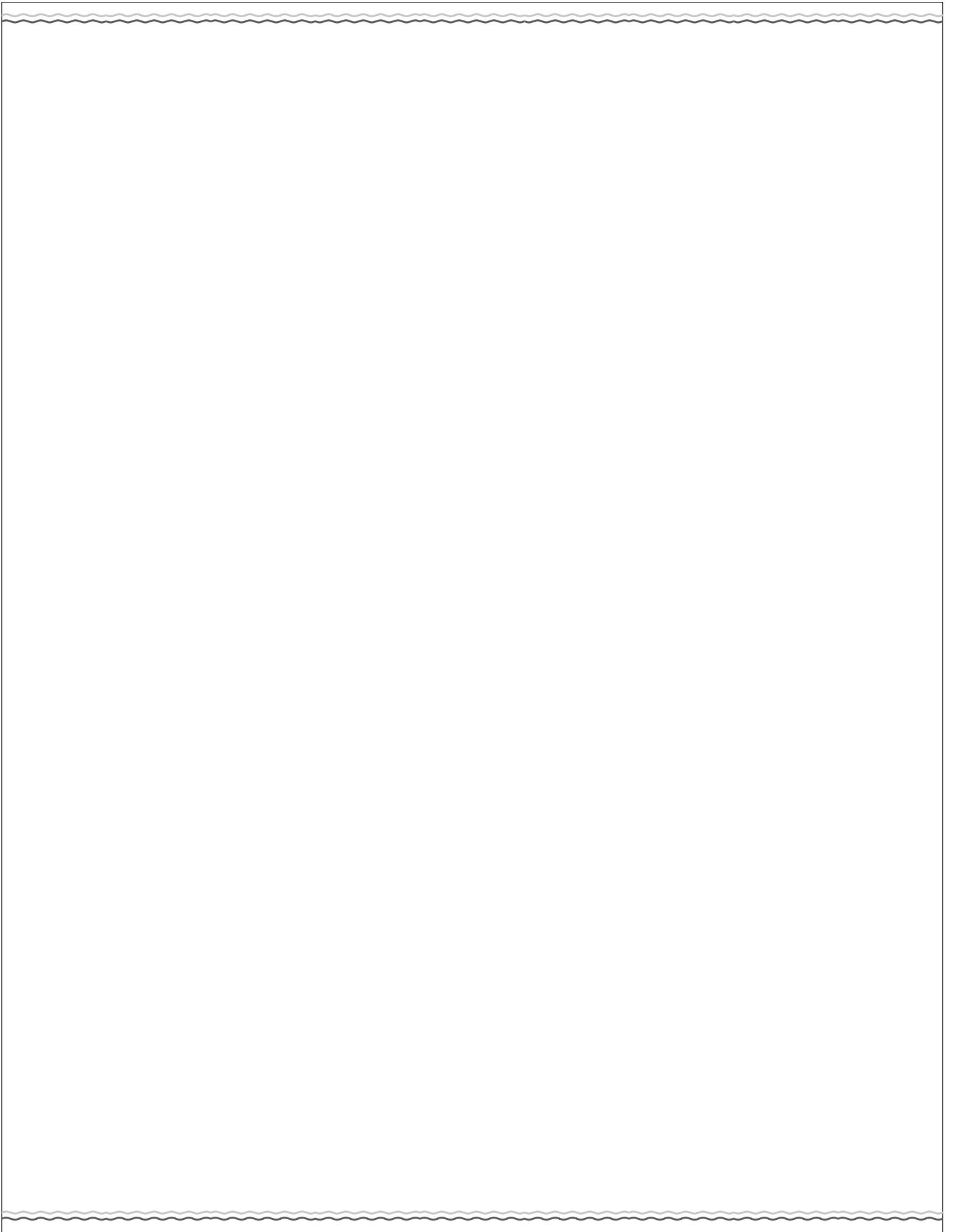
Now talking about the second year as supposed to learn core mechanical forms now onwards. I was very much influenced by 2-3 teachers from mechanical in my second year. 'Time to move on and time to make the world believe in you' was the paraphrase I always learned from my teachers as well as from my friends.

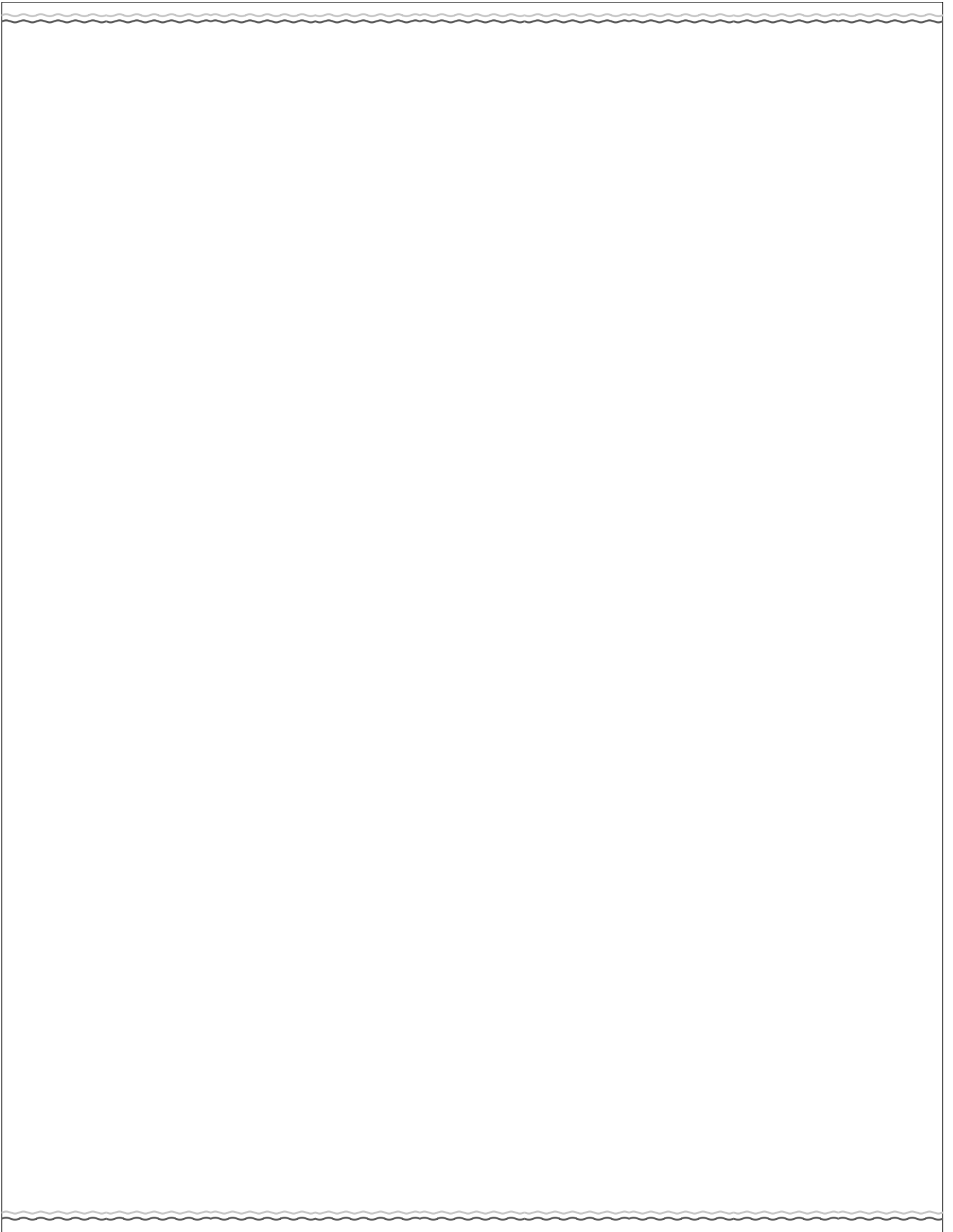
It is going to be a very less affectionate time when I will be leaving this college and living at some different place. While you are reading this I may not be in GCET. I will always be remembering this college and teachers and friends and 'credit system' and library and what not..!!

Thank you...Love you GCET..









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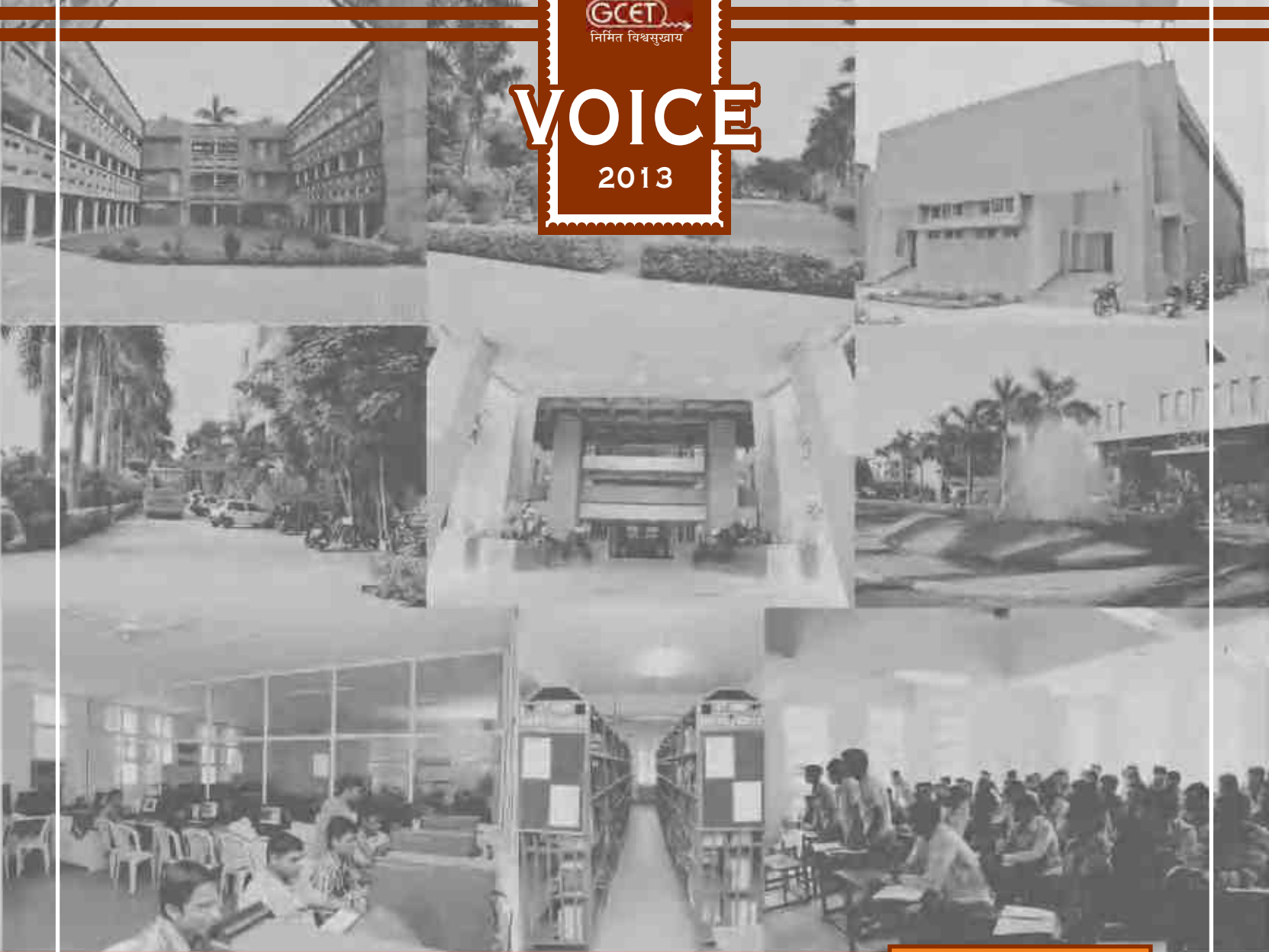


Sagar Bavarva

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2013



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