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GCET TALK

THE QUARTERLY NEWSLETTER OF
G H PATEL COLLEGE OF ENGINEERING & TECHNOLOGY
(A CHARUTAR VIDYA MANDAL INSTITUTE)

EDITORIAL JOTTINGs

Tick Tick Tick. The clock does not retreat. Seconds turn into minutes, minutes into hours, hours into days and so on. Time trudges on to the eternal journey. GCET TALK has stepped in to its third memorable year of publication as GCET is completing its one decade of existence. GCET TALK, albeit at its infancy, has started serving as a medium for dissemination of news, views and ideas of students and staff communities of GCET. It is a matter of both pride and pleasure for all of us, that apart from regular academics, GCET is always abuzz with extra and co-curricular activities of diverse tastes; not to speak of technical events, expert lectures, seminars, symposia and many more. Our newsletter encompasses all these events. Updated placement news, science around the globe and other regular features also find their place as usual. We hope to expand the scope of this newsletter in near future by adding to it a colorful assortment of articles and other creative manifests that will not only appeal to the taste of the readers, but also provide them some food for thought. GCET TALK wants to reach out to one and all. I welcome constructive suggestions from our alumni and well wishers. I would like to extend my sincere appreciation to all those members of the Editorial Board, particularly Preriit, who have toiled a lot to bring out this issue.

Dr. Kaushik Nath

Chairman Addresses the Faculty

Dr. C L Patel, Honorable Chairman of CVM and also Chairman, GCET Board of Management, addressed a gathering of faculty members of GCET on 24th January. Dr. Patel in his inspiring speech emphasized the need of more and more industry-institute interaction. He also urged the teaching faculty to explore the newer fields of research and development and devote more time on research. He announced several incentives to be implemented for the faculties in the coming years.

GCET Wins Volcano-2007

One more feather in the cap of GCET!! GCET came out as an Overall Champion out of 30 participating colleges in the Amul Volcano 2007 organized by the Rotary Club of Anand. GCET team was the winner in the events of Medley dance, G K Quiz, Personality contest for girls and boys both, Caricature, Elocution, Ad Enactment and Antakshari. Congratulations to all participants and hats off to Prof. Y A Chauhan (Cultural Convener) , The man behind this success.



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Climb every mountain, ford every stream, follow every rainbow till you find your dream!

Happy New Year, Uttarayan, Valentines, Holi. Weird???
No free messages on PUBLIC Holidays

India conquered and dominated China culturally for 20 centuries without ever having to send a single soldier across her border

NEWS AROUND

- Dr. Anurag Verma, of Mechanical Engineering Department, presented two papers, one on “Kinematic analysis of Adept Viper using Neural Networks”, and the other on “Forward Dynamic Analysis of Stewart Platform based Robot Manipulator based on Kanen Equation” in the National Conference on Trends and Advances in Mechanical Engineering, YMCA Institute of Engineering, Faridabad, 9-10, December 2006
- Mr. Ketan Tamboli & Mr. Saurin Sheth (ME Dept.) presented a paper at the National Conference on Current Trends in Technology at Nirma University, 30 Nov. – 2 Dec., 2006
- Ms. Ela Jha (LE, Mechical) presented a paper on “Influences of various carburizing parameter in distortion of low alloy steel gears”, at International symposium on steels for automobiles jointly organized by Indian Institute of Metals & Tata Steels Ltd., Jamshedpur, during 13-16 Nov, 2006
- Mr Nilesh S Modi of EE Department had participated and presented a paper on “Power Sector Reforms in Gujarat” in National Conference , NUCONE 06, at Nirma University, Ahmedabad.
- Dr. L F. Rabari (CH Department) has been selected on Editorial Board of Vishal Publishers, Jalandhar.
- Mr Nikhil Joshi (LE, IT) organized a workshop on Diary Display for 06 IT students on 30th December 2006.
- Tech fest at IIT Bombay had active participation from GCET– amidst the tight study schedules of the campus, students from Mechanical Engineering department -Ankit Vyas, Sankalp Joshi and Aman Chawla prepared a wireless speed car using gears and motors that could swift across in seconds , move in the desired directions, and bypass obstacles.
- Mr. M Panigrahi (LE, Maths) published two more papers, one in Int. J of Maths & Mathematical Sciences and the other in European J. of Operational Res. He has recently submitted his PhD thesis at IIT, Kharagpur.
- GCET IEEE had organized Scintillations last year in order to inaugurate its IEEE Branch. This time GCET IEEE is back with Scintillations 07 with four more events in addition to its previous form.

GCET Celebrates 57th Republic Day

A bit of patriotic feeling coupled with a fervor of enthusiasm – that probably became the driving force for the students and staff members of GCET to brave the chilly cold of winter morning to assemble together for flag hoisting ceremony on 26th January, 2007. Opening with the unfurling of The Indian tricolor by Dr. Ketan Kotecha, Principal of GCET, the brief gathering enjoyed the patriotic songs by a couple of students and an impromptu elocution on ‘Are we really free’. Dr. R. P Arora, HOD, Mechanical Engineering Department, in his speech spelt out his ardent optimism for a developed India.

TIME FOR SOME AUTOMATONS!

iTRIX Robotics Workshop

The iTRIX workshop was organized by TRI (A venture by IIT-B alumnus that develops robotic kits and teaches them effectively with varying complexity catering from school students to engineering undergraduates) on 6th

7th August 2006. This 2 day workshop, conducted over a duration of 16 hours taught the students the fundamentals of designing and building autonomous robots by integrating them with microcontrollers. Students gained a hands-on experience by working on carefully developed Sumo wrestling kit.

Workshop on MATLAB

A three day workshop on MATLAB was organized on 3rd, 4th and 5th of January at the computer lab, 2nd floor. There were expert lectures on the topic by Chintan Modi, Rajesh Sanghvi, Ikit Anadkat, Saurin Sheth and Shankar Parmar. The workshop gave an excellent opportunity for students to learn MATLAB, one of the widely used technical software.

Fuelling the Future with Bio-Hydrogen

‘Hydrogen has every potential to become an efficient and environmentally benign energy resource of the future. This can be produced by the exploitation of abundantly available biomass resources,’ explained Prof Debabrata Das, Professor from IIT, Kharagpur. On 30th of December, Prof. Das delivered a technical talk on ‘Biohydrogen as a sustainable renewable energy resource – prospects and potentials’. The talk was organized by the Department of Chemical Engineering.

STTP on Recent Trends in Power Electronics And its application in Electrical Systems

Department of Electrical Engineering had organized a Short Term Training Program on “Recent Trends in Power Electronics & its Application to Electrical Systems” under the auspices of ISTE, from 25th to 29th December 2006. The program had been coordinated by Prof. J C Panchal. There were 20 participants

from all over Gujarat and Maharashtra state. The key note address was delivered by Prof S M Joshi, Pro Vice Chancellor, M S University, Baroda. Experts from Industry and eminent professors from different universities delivered their expert talk during the program.

Troubles are often the tools by which God fashions us for better things

Companies	CH	IT	ME	EC	MC	CP	EE
Tata Consultancy Services	--	--	--	05	03	08	01
Larsen and Toubro	01	--	07	01	04	--	01
Patni Computers	--	01	--	02	--	05	--
Cognizant Technology	--	--	--	--	--	01	--
Infosys Technology	--	--	04	06	04	05	03
SATYAM Computers Ltd.	--	--	01	03	03	05	--
Seimens Technology	--	--	01	--	01	--	01
Neilsoft Ltd.	--	--	04	--	--	--	--
Tech Mahindra (Earlier MBT)	--	01	04	07	04	08	01
Essar (Steel and Oil)	17	--	11	--	--	--	--
Crompton Greaves		--	--	--	--	--	01
Atul Ltd (Valsad)	03	--	01	--	--	--	--
GE Processing (Earlier L& T NIRO)	03	--	--	--	--	--	--
GNFC Bharuch	01	--	01	--	--	--	01
Wipro Technolgy Ltd (Pune)	--	01	--	04	--	01	--
Tata Chemicals	01	--	02	--	--	--	--
Hexaware Solutions	--	--	--	--	--	01	--
Voltas Ltd	--	--	01	--	--	--	--
Real Soft Pvt Ltd	--	01	--	01	--	01	--
DLF Construction Company	--	--	--	--	--	--	01
Gujarat Glass Pvt Ltd	--	--	--	--	--	--	01
GSFC Ltd	03	--	--	--	--	--	--
Schenider Electrical	--	--	--	--	--	--	02
Super Gas Co. Ltd	--	--	01	--	--	--	--
Adani Group Ltd	--	--	--	--	--	--	04
Bombardier Transport Co.	--	--	--	--	--	01	01
Total	29	04	38	29	19	36	18

Sports Round Up

GCET secured Fourth Position in Intercollege Basketball (Boys) and Third Position in Intercollege Volleyball (Boys) Organised By S P University in November and December 2006 respectively. Maheta Snehal(IT) along with Mr Nikunj Parmar were selected for participation in South and West Zone University Lawn Tennis organized by Madras University, Chennai.

Total :173

By- Y N Rai (TPO, GCET)

As on 15th February , 2007

PRATIBHA 07'

By : Organizing Committee
Pratibha07

How to draw a balanced paper?

GCET ISTE Chapter organized a panel discussion on "How to draw a Balanced Question Paper" on 2nd February, 2007. Panelists were Principal Dr Ketan Kotecha, Prof J C Panchal, Dr. R P Arora, Dr. S. Ramamorthy. The speakers explained various parameters of a balanced question paper. They also emphasized the need of a common guidelines for setting question papers.

A booming effort to enhance the innate qualities of Geetians; Students of placement committee, decided to organize an event "Pratibha", which comprised of an online aptitude test followed by brain storming group discussions, logical reasoning questions and personality contest to unravel the hidden potential in them. A stepping stone for the students to gear them up for the placements and carve out their niche.

G H Patel College of Engineering & Technology



In Quest for Excellence

Our Vision ::

To produce engineering graduates who are globally competitive, live by a set of core values, are able to accept any professional challenge thrown at them, and remain responsive to the needs of India and the humanity.

Our Mission ::

To foster a stimulating learning environment, develop excellence amongst students, faculty and staff in every activity GCET carries out, and thereby aim to become one of the best premier technical institutes of the country.

Our Quality Policy ::

We, at GCET, will continuously strive to become and remain leaders amongst technical education institutions in India through constant improvement in teaching learning process, continuous interaction with industry through consultancy, combined development project and providing an intellectual environment conducive to life long learning

Gcet towards accreditation

Accreditation is a process of quality assurance, whereby a program in an approved institution is critically, appraised to verify that the institution or the program meets the norms and standards prescribed by the All India Council for Technical Education (AICTE). The norms and standards are verified by National Board of accreditation (NBA); which is a body nominated by AICTE for the Accreditation purpose. Accreditation is the ladder, which can be helpful to achieve Total Quality Management in the Technical Education.

Objectives:

- To identify those institutions and their specific programs, which meets the AICTE norms, standards and quality indicators specified from time to time.
- To provide guide lines for the desirable up gradation of existing programs and for the development of new programs.
- To encourage the maintenance of a standard of excellence and to stimulate the process of continual improvement in technical education in the country.
- To maximize the effectiveness and efficiency of academic activities.

Benefits:

Accreditation benefits the academic institutes in multidirectional ways; like growth of the institution, national and international recognition, qualifying for the R & D grants, faculty developments and ultimately imparting better training & education to the students. *Accreditation helps every one of the institution as well as society.*

Our institute, GCET is also in the process of Accreditation. Application for the Accreditation has been submitted for Mechanical, Electronics and Communication and Information Technology programs. All faculties, supporting staff, administrative staff and students are committed for achieving the targets set by the management. We feel proud about our institute because it is a growing institute and we are part of that institute.

Success is the sum of small efforts repeated day in and day out

Book Review

The Fountain Head

By *Hetal Lakhani*

2nd Level IT

Ayn Rand, has been an awesome writer who talks about philosophy of life with such an ease and peculiarity that you will definitely fall in love with her objectivism. She talks about being unique, about being ethical and above all being yourself.

She displays the character of Howard Roark who seems to have a dogmatic attitude with such an appeal that every reader will meander from their thoughts of impeccability. Howard Roark, is thrown out from the architecture school for not doing the conventional and ends up working for a man who is on the brink of losing his career. Peter Keating excels in examinations with flourishing grades and becomes the best architect student and gets recruited by the most famous firm. He suits himself to people, the way he thinks, they want and loses his own identity, yet, he propels. He gets promoted and acquires a position, people yearn for. He wins at each and every step and he cheats himself. On other side, Howard lives for his ideologies. He shows the epitome of contentment in whatever he does. His ideas fail in public's opinion, yet he thrives to do things for himself. He is being criticized and insulted yet he appeals more because he is himself. He believes in objectivism...he denies collectivism.

The story takes a new turn when Dominique Francon, daughter of the head of the firm in which Peter Keating works comes into the play. She is bold and highly attractive bravado who lives life in her ways. She falls in love with Howard but her attitude does not let her take the relationship strongly while Peter Keating aims at getting her, out of the greed of acquiring the firm for himself. But Dominique isn't the one who will let herself be that easily accessible. She, in fact, aims at getting Howard lose the battle of life.

This tome lets you forget in what surroundings you are in. You will try to judge the souls around you in accordance to the characters in the book. Read it, to find out more about this master piece of literature. Am sure, everyone will acknowledge the writer's prophesy over understanding life.

Spice in Science

By Maulik Chauhan
4th Level ME

Math Difficulties

One day in his twilight years, Einstein received a letter from a 15-year old girl asking for help with a home work assignment.

She soon received a curious reply: a page full of unintelligible diagrams, along with an attempt at consolation: "Do not worry about your difficulties in mathematics," Einstein told her." **I can assure you that mine are much greater!"**

The Smart Driver

One day during a lecture tour, Albert Einstein's driver, who often sat at the back of the hall during his lectures, remarked that he could probably give the lecture himself, having heard it so many times.

Sure enough, at the next stop on the tour, Einstein and the driver switched places, with Einstein sitting at the back in his driver's uniform.

Einsten's Bad Count Again

Einsten once traveled in a Berlin tram. Conductor returned some change along with the ticket. The mathematician counted the change twice and told the conductor that he had

GO SPAC!!!!!!!

- GCET IEEE will be organizing *Route en Avant*, A Student Professional Awareness Conference, in April. GCET IEEE is the first in Western India to come up with the concept of SPAC which is presently in vogue in US and Europe. So, ARE YOU READY? For more Details log on to www.gcet.ac.in/ieee

Spice in Science (contd.)

-not given the correct change.

The conductor took all the change back from the great mathematician and showed him that he had given the exact change and remarked cryptically," This is the problem with you old people! **You cannot count properly.**"

Funny Bone

Women have a passion for mathematics. They divide their age in half, double the price of their clothes, and always add at least five years to the age of their best friend.

A bank is a place where they lend you an umbrella in fair weather and ask for it back when it begins to rain.

Everything is funny as long as it is happening to somebody else.

Experience is a hard teacher because She gives the Test first, the lesson afterwards

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NO COMMENTS

Generally, women say
7000 words a day while
men say just 2000 words

Kid to his Dad as they
watch TV: "Dad, tell me
again how when you were
my age you had to walk
all the way across the
room to change a chan-
nel."

NBC - No Body Cares.

Backbeat

Science Around the Globe

Fridge Could save Power for a Rainy Day!!

Refrigerated warehouses might soon be used to store not just food, but Giga-Watts of electricity. A plan dreamt up in the Netherlands could see the giant fridges acting as massive batteries. They would buffer swings in supply and demand from electricity created from renewable sources. The idea seems simple. Say you lowered the temperature of all large cold stores in Europe by just 1°C during the night when electricity demand is low, then let it rise 1°C by switching them off during the day when demand is at peak. The net effect would be that the warehouses would act as batteries – potentially storing 50,000 megawatt-hours of energy – and the food wouldn't melt. That's the calculation of Sietze van der Sluis, head of refrigeration and heating technology at The Netherlands Organization for Applied Scientific Research (TNO) in Delft.

New Data Center Blueprint From Novell Incorporates ITIL

Novell today unveiled an end-to-end automated system management "blueprint" marrying guidance for heterogeneous infrastructures and Information Technology Infrastructure Library (ITIL) methods. The Desktop-to-Data-Center Management Blueprint is centered, of course, on Novell ZENworks, but company spokespersons say they've made a concerted effort to design a methodology that allows for cross-vendor use (if other vendors get involved), according to an e-Week Overview piece. The company also highlights the fact that the blueprint covers all resources including PCs and hand-held devices, not just the content of the data center.

Nanoengineered Concrete could Cut Global Warming!

MIT Professor Franz-Josef Ulm and post-doc Georgios Constantinides have shown that the strength of concrete lies in the way its nanoparticles are organized -- like oranges stacked in a supermarket. Their findings could lead to a reduction in carbon dioxide emissions during concrete manufacturing. The production of cement, the primary component of concrete, accounts for 5 to 10 percent of the world's total carbon dioxide emissions; the process is an important contributor to global warming.

NEWS FLASH!!

- The largest climate change in central North America since the age of the dinosaurs 65 million years ago, a temperature drop of nearly 15 degrees Fahrenheit, is documented within the fossilized teeth of horses and other plant-eating organisms.
- A goblin shark -- a rarely seen species often called a "living fossil" -- was caught alive in Tokyo Bay but died after being put on display. [Source: Nature Online].

ABOUT GCET TALK

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Not so Chilled out!!!!!!! Student Editors

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If you would like to contribute a poem, an article, a work of fiction, cartoons or any other interesting thing in GCET Talk/Voice, please contact Dr Kaushik Nath, Chemical Engineering Department, GCET(kaushiknath2003@yahoo.co.in).