GCET TALK

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THE QUARTERLY NEWSLETTER OF—G H PATEL COLLEGE OF ENGINEERING & TECHNOLOGY

(A CHARUTAR VIDYA MANDAL INSTITUTE)

GCET Among Top 100 Engg. Colleges in the Country

GCET has been ranked #99 the top engineering colleges in the country, by *Outlook* magazine in its special issue (July 17, 2006) on college rankings for 2006.

Among the institutes from Gujarat, GCET comes in fifth, behind *DA-IICT*, *SVNIT*, *Nirma* and *DDIT*. For an institute, which just completed only 10 years of existence, it is a colossal achievement.

Outlook had commissioned *Cfore*, a research organization, to conduct the study so as to obtain a comprehensive ranking of colleges nationwide. The study was divided into two phases. In the first phase, a survey was conducted among students, faculty members and industry representatives, to finalize five parameters of grading, which included intellectual capital, infrastructure, pedagogic systems, industry interface and placement. In the second phase, a questionnaire was prepared for senior faculty members from various institutes, the responses of whom determined the rankings.

This is without doubt one of the best gifts GCET has received for its 10th anniversary!

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Editorial

Here is the third issue of GCET Talk, the quarterly newsletter of GCET. The quarter of April to June was indeed eventful for the GCET fraternity. To name a few: the grand celebration of the 10th Annual Day followed by the cultural meet, release of GCET Voice 2006, one-day workshop on research methodology, inauguration of the *IEEE* student chapter and so on. The highlights of these events are featured in this issue. A record number of 105 students got recruitment, thanks to the T&P cell, through campus interviews, thus setting up a record in the history of *SPU*.

GCET Talk wants to reach out to one and all members of GCET. As usual, constructive criticisms are always welcome from the readers.

Kaushik Nath

GCET Makes History with Record Placement

Third year students of GCET were in for a surprise when India's giant companies, like *Infosys*, *Satyam Computers*, *Tata Consultancy Services*, *Larsen and Toubro*, *Siemens* etc. approached them for placement, through campus interviews.

This was the first time in the history of GCET, and in fact all of *SPU*, that as many as 105 students got placed by just the start of their first semester of the fourth year, with 74 of them having been selected even before passing their third year.

While companies like *Wipro*, *Satyam Computers*, *Patni Computers* and *Larsen and Tourbo* regularly visit *SPU* engineering colleges, it was for the first time that *Infosys* came to the state to recruit engineering students, absorbing a gargantuan 22 GCET Students at a salary of Rs. 2.5 lakh per annum.

The average salary of all selected students in all the companies who have come for campus interviews so far at GCET is Rs. 2.2 lakh per annum.

In this, the first round of campus interviews at GCET, nine companies battled over coming for recruitment before the other, to grab hold of the best students GCET has to offer.

The second round is expected to begin soon, with companies like *Wipro* likely to visit.

Departmental statistics of the placement can be found on Page 3.

Auditorium Construction Under Way

Bhoomi Puja ceremony was performed for the construction of GCET's auditorium on April 30 in the presence of Dr. C L Patel, Chairman, *CVM*, Dr. K V Kotecha, Principal, GCET, Er. V M Patel, Secretary, *CVM* and other dignitaries.

The auditorium, which will have a capacity of 550 seats, was really a fulfillment of a long standing requirement of the GCET Community. The building will also contain a separate seminar hall.

The construction work is under progress, and is expected to be completed in a few months' time.

GCET—Workshop on Research Methodology

GCET organized a one-day workshop on "Research Methodology in Engineering Education" on April 22, 2006. About 104 faculty members from various engineering colleges and polytechnic institutes of Gujarat registered as delegates. The workshop was fully sponsored by *CVM*.

The aim of the workshop was to acquaint the participants with the importance of research work and to keep them abreast with the recent trends in research methodologies.

The workshop was inaugurated by Dr. H S Patil, Professor and Dean Administration, *SVNIT*, Surat, who also delivered the keynote address on "Role of Research in Engineering Education: Present Scenario and Future Perspective".

In his presidential remark, Dr. C L Patel, Chairman, *CVM*, appreciated the effort undertaken by GCET, and wished the workshop a success. He stressed upon the importance of interdisciplinary interaction in research.

Dr. Ketan Kotecha, Principal, GCET, welcomed the delegates. The workshop consisted of three technical sessions and a panel discussion at the end.

A view of the delegates at the workshop on "Research Methodology in Engineering Education"

In the first session, Prof. J S Panwar, Head of Business Management, *SPU*, gave a talk on "Research for New Product Development". The topic of second session was "Analytical Tools and Their Usage in Modeling". The speaker was Prof. V D Pathak, of Applied Mathematics Department, *MSU*, Baroda. Dr. K N Ponani, Technology Consultant Management, Baroda, delivered a talk on "Patent and Intellectual Property Rights in Context with Research" in the third session.

Each lecture was followed by interactions with the participants. The participants also took part in the panel discussion, which was chaired by Dr. N D Jotwani, Professor, *DA-IICT*, Gandhinagar.

The workshop was coordinated by Prof. Kaushik Nath of the Department of Chemical Engineering and Prof. Khadeeja Priyan of the Department of Civil Engineering and Mathematics.

GCET—STTP on AI and Soft Computing

The IT & CP Department of GCET organized a one-week AICTE-ISTE approved Short Term Training Programme (STTP) on "AI and Soft Computing" from July 3-7, 2006.

The aim of the training program, sponsored by the Charutar Vidya Mandal, was to enhance knowledge of teachers, for degree and diploma level engineering colleges, in the area of Artificial Intelligence (AI). Artificial Intelligence is an emerging technology and it deals with problems and applications, which cannot be solved using traditional technology. Also, AI is a very diverse field which is having application in various fields of engineering.

We invited experts from SV-NIT, Surat, DA-IICT, Gandhinagar and CIT, Changa. Experts from ADIT, BVM, G H Patel Computer Science Department and GCET also delivered lectures during this training program. The experts talked on various flavors of AI, like Neural Network, Fuzzy Logic, Genetic Algorithm, Machine Learning and different applications of AI.

32 participants from 10 different engineering colleges of Gujarat attended the course.

Industrial Consultancy Cell—GCET Update

Industrial Consultancy Cell—GCET (ICC—GCET) had approached *Microchip Corporation*, USA, for a microchip consultancy program.

Microchip Corporation, Pune, invited Prof. Deepak Fulwani and Mr. Mukesh Bhesaniya for a training program on microchip devices at their facility.

GCET has been conformed the status of "Microchip Qualified Trainer" *Microchip Corporation*, and the college is now the only authorized trainer for microchip devices in Gujarat.

In other development, *M/s. Atlanta Electrical Ltd.*, manufacturers of power distribution and special transformer, approached ICC—GCET for the development of "Microcontroller-based Protective Equipment" for their power transformers.

ICC-GCET has been given the order for the design, development and technology transfer for the project. Mr. Mukesh Bhesaniya is working on this project.

Scintillations '06: A Success

GCET IEEE (*Institute of Electrical and Electronics Engineers*) Student Branch organized SCINTILLATIONS—*Peregrination in future* — a one day technical event on April 23, 2006.

The Chief Guest Dr S K Bhattacharya, a renowned scientist and Dean of PRL (*Physical Research Laboratory*), Ahmedabad, instead of the traditional method of using a candle to light up a lamp, clicked the switch of a mouse to inaugurate.

The inauguration of the event was followed by the inauguration of GCET IEEE website — http://www.gcet.ac.in/ieee — by Principal R C Desai.

After the inauguration, came the expert talks, running parallel. Speakers for Ad Infinitum (IT & CP Department) included Dr S N Pradhan from *Nirma Institute of Technology* and Dr Buddhadev, HOD, Computer/IT Department, *L D College of Engineering*, Ahmedabad. Cynosure (EC Department) consisted of talks by Dr S B Sharma, Deputy Director, *Space Application Centre* (SAC), ISRO and M V Joshi, Professor, DA-IICT. A K Singh from ERDA and S B Mahajani from *Amtech Electronics* gave talks in Culmination (EE Department).

10 on 10!

The ID 02ME309 has, forever, been etched in GCET's history. Its holder, Ankit Surti, has become the first GCETian, in its 10 years of existence, to pass out with a CPI of 10.

Ankit, who hails from Baroda, has been admitted to *IIT Kanpur* for his M Tech in Mechanical Engineering, specializing in Manufacturing Sciences.

We congratulate Ankit for this monumental achievement, and hope that he will do all GCET proud by securing 10 on 10 at *IIT-K* too.

We also congratulate each and every student who graduated this year, and wish them a successful career ahead. We hope the education you received here helps throughout your lives!

GCETians Among Elite IIT Freshers

Four graduating GCET students, all with 9+ CPIs, have got admission into *IITs*, after qualifying through the *GATE* examination.

Ankit Surti, from ME, and Pramod Bhatotia, from IT, are headed to *IIT Kanpur*, the #1 ranked engineering institute in the country, while Harin Vadodaria, from CP, is joining *IIT Bombay*. Ajay Atkotia, from ME, also made it through to *IIT Delhi*, however, he isn't enrolling.

We wish you all the best of luck, and hope you come out with flying colors!

GCETians—Flying High!

It is a matter of pride when GCET's graduates get selected in universities abroad for further studies. From the 2002 batch, the students of which passed out this year, more than 15 are going to either the US or the UK in pursuance of their dreams, with three of them being admitted to the *University of Southern California*, which ranks among the top 20 universities in the US for engineering, and two of them being admitted directly into a PhD program with full financial aid. Below is a the list of foreign-bound GCETians (as received). We wish you all best of luck for your studies as well as other future endeavors!

Name	Branch	University	Program
Aditya Kanitkar	CP	Arizona State University	MS
Arjav Patel	CP	University of Colorado—Denver	MS
Kunjal Desai	CP	New Jersey Institute of Technology	MS
Nirav Shah	CP	University of Southern California	MS
Shyamal Patel	CP	University of Southern California	MS
Chhavi Manocha	CH	Clemson University	PhD
Sudeep Popat	CH	University of California—Riverside	PhD
Prashant Shah	IT	Syracuse University	MS
Shreya Modi	IT	University of Texas—Dallas	MS
Arpan Desai	EC	Brunel University (UK)	MS
Darshan Kadia	EC	University of Southern California	MS
Disha Doshi	EC	Illinois Institute of Technology	MS
Keyur Tejani	EC	University of Florida—Gainesville	MS
Khushboo Patel	EC	New York Institute of Technology	MS
Shiven Shah	EC	Illinois Institute of Technology	MS
Uchit Shah	EC	Cleveland State University	MS

Placement Update

The following leading companies visited GCET recently, selecting students from the **2003** batch:

* Tata Consultancy Services
* Larsen & Toubro Limited
* Infosys Technology Limited
* Satyam Computer Services Limited
* Patni Computers Systems Limited
* Cognizant Technology Solutions Corporation
* Neilsoft Ltd.
* Siemens Pvt. Ltd.
* Tech Mahindra Ltd.
* ... and there are many more to come!

Campus Recruitment at a Glance!

Branches	No.
Computer Engineering	32
Chemical Engineering	1
Information Technology	2
Mechanical Engineering	21
Electronics & Communication	25
Mechatronics	18
Electrical Engineering	6
Total	**105**

Congratulations to all those who got placed; we hope you have a bright and successful career!

Errata

In the last issue of GCET Talk, there was a misprinted name in the article "*ISTE* Chapter—GCET Lectures". Mr. Amit Amin was the co-speaker for the lecture on "GCET Network". We apologize to all concerned, for the error.

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Contribute:

If you are interested in joining the Editorial Committee of **GCET Talk**, contact Prof. Kaushik Nath of the Department of Chemical Engineering.

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If you would like to contribute a piece (an article, a poem or even a work of fiction) for* GCET Voice *Issue 7, or want to join the editorial board, contact Prof. Kaushik Nath of the Department of Chemical Engineering.

Science Around the Globe

♦ ***Prerit Souda***
(Fourth Level, EC)

Communication: A municipality-owned network in Utah, USA, is poised to offer high speed internet connection along with a telephone and television programming facility through a single fiber-optic cable. Hence, it's just a single cable that you need to get connected to the rest of the world. Data rates at present are 30 MBPS but the providers will soon be providing the speeds twice as fast as the new DSL being introduced in Europe by France Telecom. *(IEEE Spectrum, INT)*

Astronomy: Large telescopes can detect fainter objects and produce crisper images. Today's biggest telescopes for visible and infrared lights have mirrors eight to 10 meters across, and researchers are now working on the next generation, ranging from 20 meters to an epic 100 meters. Situated on the ground, the telescopes would be equipped with adaptive optics technology to undo the effects of atmospheric blurring. (*Scientific American, India)*

Earth Science: Isabela Velicogna and John Wahr of the *University of Colorado, Boulder*, USA, have found that Antarctica has lost a significant amount of ice in the past few years. They used measurements taken from April 2002 to August 2005 by GRACE (Gravity Recovery and Climate Experiment). It consists of two orbiting satellites whose separation is affected by slight gravitational tugs caused by the shifting of mass on the earth's surface. *(Science Express)*

Defense: *US Military* plans to field several new armor systems that should better defend its personnel. One of the recent apparent improvements in armor has been the development of new, ultrahigh-hardness (UHH) steels. Such alloys are as much as 20 % harder than the hardest high carbon steels, but they tend to be brittle and can crack when hit. *(Scientific American, India)*

Condolence

We deeply mourn the recent sad and untimely demises of two of our very bright students, Hardik Dave (Chemical Engineering) and Jugal Shah (Electronics & Communication). May their departed souls rest in eternal peace in the heavenly abode. We express our condolence to their bereaved familes and friends.

Letters to the Editor

Heartiest congratulations for your effort to make GCET Talk! It is a great pleasure for all (current and former) GCETians to know the incessant progress of GCET laid by our founder principal Prof. Jotwani. Certainly GCET Talk is reinforcing our motto: 'Once a GCETian is a GCETain for ever!'

I am sure in addition to highlighting the excellent teaching standards, exemplary teacher-student contributions, GCET Talk will become better day by day in strengthening alumni and industry interaction and in reaching to wider audiences.

Further to note, GCET website is often updated and has many new features now. To the best of my knowledge, the website is visited by hundreds of GCETians all over the globe and most of them are willing to offer their skills and international exposure for the benefit of fellow GCETians.

Pancham Shukla (Faculty, EC)
Currently pursuing PhD in the UK

Its great to see that the GCET Talk which we all started under Mr. K R Trivedi last time, has won against all odd of time and is back in a more refreshing form.

It is thrilling to see our college doing so well. Thank you for the initiative you all have taken.

Abhishek Bhandari (Alumnus, MC, 2001 Batch)

You can send in your letters by e-mail to kaushiknath2003@yahoo.co.in, and we will try to get them published in the next issue.