



LDCE

NEWS LETTER

Quarterly Magazine

Vol. - 5 , Issue - 2 April - June, 2009

L. D. COLLEGE OF ENGINEERING AHMEDABAD-15

Phone : 079-26306752, 26303190, Fax : 079-26303105, 26304118

E-mail : ldce_ciiilp@yahoo.com, Website : www.ldceahd.org, www.jacpldce.ac.in

CONTENTS

1. From the Desk of the Principal	1
2. Departmental Activities	2
3. Faculty Activities	3
4. Students' Activities	4
5. College Activities	4
6. Industrial projects undertaken	4
7. Testing / Consultancy work	4
8. GTU Activities	5
9. Ambedkar Jayanti Celebration	5
10. Programs Participated by Faculty	5
11. M.E. Dissertation	7

1. FROM THE DESK OF THE PRINCIPAL



At the outset, I express my deep sense of gratitude to all of you at this institute, for the whole-hearted support and co-operation extended to me, which has led me towards the successful completion of five years in office as Principal of this prestigious Institute of Gujarat.

It is for the first time in history of Gujarat, Government of Gujarat has introduced web-based On-line Admission procedure for Admission to Professional Degree Engineering and Degree/Diploma Pharmacy courses in association with National Informatics Centre (NIC), New Delhi. It is expected that, this system will save lot of time and money spent by far away located students in different corners of Gujarat, for counseling and securing admission. Government of Gujarat has doubled the total number of engineering seats from this year in all disciplines benefiting more students to secure admission at different colleges. Government has also promoted Public Private Partnership (PPP) concept from this year and six more colleges will come under this umbrella. If we look at the overall picture, with around 30 colleges coming up, the total number of seats available will be around 35000. Hence, no candidate will be deprived of securing admission to the Engineering course.

As you are all aware, I have been also working as Vice-chancellor of Gujarat Technological University (GTU)

Patron :

Prof. M. N. Patel
Principal

Editor :

Prof. G. C. Brahmabhatt

Advisors :

Prof. (Dr.) J. S. Shah
Prof. J. V. Dave
Prof. R. N. Shukla
Dr. N. S. Varandani
Prof. M. H. Rangwala
Prof. P. D. Solanki

Prof. M. R. Bhatt
Prof. V. B. Babaria
Prof. N. N. Bhuptani
Prof. K. B. Bhoyaniya
Prof. D. A. Patel

BOOK-POST

To, _____

since March 2009. GTU has completed the revision of syllabi for 3rd and 4th Semesters for various disciplines of Engineering across the state, as a result, we move towards uniform syllabi throughout the state. Government of Gujarat has provided single window entry to MBA & MCA courses in the Institutions, Colleges and University departments across the state by introducing Gujarat Common Entrance Test (GCET). It is a matter of great pleasure for us that, the responsibility of conducting GCET has been entrusted to GTU from the academic year 2009.

In order to smoothen and streamline the admission procedure to Post Graduate Engineering courses across the state, GTU will co-ordinate the examination from the current academic year.

The successful execution of the entire procedure is due to whole-hearted support of the staff members of L.D.College of Engineering and full utilization of the infrastructure available at the college.

I am confident that, L.D.College of Engineering can play a pivotal role by providing a platform for quality technical education through concerted efforts, which will go a long way towards the upliftment of technical education in Gujarat state.

Ahmedabad

Date: 30/06/2009

2. DEPARTMENTAL ACTIVITIES

* **Electrical Engineering Department**

- During May – June 2009, Electrical Engg. Department has successfully accomplished the task, assigned by Gujarat Energy Development Agency (GEDA), of assessing and merit listing Energy Audit reports conducted by 560 school students for 560 homes and 191 schools.
- Department has successfully handled one of the help centres for BE & MBA/MCA admissions in its computer laboratory, thereby enabling thousands of students in getting registered for their admission from 29/5/09 onwards.
- Prof.B.P.Patel retired on 30th April 2009 after 35 years of service in Technical Education.

* **Computer Engineering Department**

- Six help centres established in the college campus to conduct on-line Admission procedures smoothly are run quite efficiently under the guidance and supervision of Computer Engineering Department.

- Computer engineering designed and finalized the syllabi of MCA Semester I & Semester II and BE(CE/IT) Semester III & Semester IV for GTU.

* **Electronics & Communication Engineering Department**

- VLSI Prefab Tools image software - 10 nodes lab and VLSI Prefab Tools Image software product developed by Powai Labs Tech. Pvt. Ltd from R & D Centre IIT, Bombay, Powai, worth around Rs.55 lacs is set up at the department. This package will be useful for VLSI & Embedded system research work. Our Institute is first to set up this laboratory in the state.

* **Chemical Engineering Department**

- Chemical Engineering Department has been selected as Co-anchor institute for Chemical & Petrochemical sector by the Industries Commissionairate, Gujarat State.
- The students of Rubber Technology, Plastic Technology and Chemical Engineering have got 100% placement.

* **Mechanical Engineering Department**

- Prof.C.N.Modi retired on 31st May 2009 after 35 years of service in Technical Education.

3. FACULTY ACTIVITIES

* **Civil Engineering Department**

- Ms.Vidhi D.Bhojak, Lecturer in Geology, received Merit Gold Medal in M.Sc.Geology, at Gujarat University by Hon. Governor Shri Naval Kishorji Sharma.

* **Electronics & Communication Engineering Department**

- Dr. K.R.Parmar, has been awarded Ph.D from M.S.University of Baroda on “**Integration of Cryptographic Algorithm with communication protocol for security in 3G mobile communication**”, on 23rd April 2009.

* **Electrical Engineering Department**

- Prof V B Babaria, Head Of Electrical Engg Dept. delivered a lecture on “**Power System Stability**” at the STTP on “**Power System Operation & Control**” at LDRP College of Engg. & Research held at Gandhinagar from 25/5/09 to 30/5/09.

* **Chemical Engineering Department**

- Prof. B. H. Shah, Prof. C. G. Bhagchandani and Prof. R. N. Desai worked as committee members for Co-anchor Institute.
- Prof. B. H. Shah is appointed as co-ordinator for M. E. Syllabus committee for Chemical Engineering course under Gujarat Technological University.
- Prof. S.B. Thakor worked as committee member for Institute workload calculation for L. D. College of Engineering.
- Prof. D. J. Desai worked as expert committee member for inspection of Polytechnic at Savali & Kalol.
- Prof. C. G. Bhagchandani appointed as committee member for M. E. Admission under Gujarat Technological University.
- Mrs. Rajul Bhatt, Ms. T. H. Kothari, Shri Amar Vaghela, Ms. Anal Bhatt & Ms. Hiral Pandya worked for U. G. admission.
- An article on Scientific Evidence Through “**Life Cycle Assessment**” Methodology to Support The Claims that PVC do not pose a Threat to Human Beings and Wildlife was published in the journal in Plastic Sandesh, written by Prof. D. J. Desai May-2009.

* **Computer Engineering Department**

- Prof. B. V. Buddhadev, as a member of NBA accreditation team & LIC team, visited various colleges in different states.
- Mr. C. A. Patel, Lecturer in IT got admission at SVNIT (Surat) for M.Tech. (computer Engg.) course. He secured 87% in GATE.
- Ms. H M Diwanji, Lecturer in IT completed her M.E. (Comp. Engg.) in April 2009 with First class distinction from D.D. University, Nadiad.
- Mr. Tushar.J.Raval is appointed as Nodal officer and Mr. P.J. Zaveri is appointed as Network Administrator for the help centers running at various departments of the college.

4. STUDENTS' ACTIVITIES

* **Chemical Engineering Department**

- M. E. Sem.-II Chemical Engineering students Ms. Sapna & Ms. Dhara presented a paper on “**Membrane Bio Reactor**” at Sarvajanic College of Engineering & Technology at Surat on 6th May 09 at event “**Chemprowells 2009**”

* **Environment Engineering Department**

Industrial training

- Students of Sem VI (Env) have been sent for industrial training at various industries, consulting firms and ETPs from 15/6/09.

* **Textile Technology Department**

Industrial training

- Students of Sem VI have been sent for industrial training at Garden Silk mills, Surat and Arvind Mills, Ahmedabad during summer vacation.

* **Electronics & Communication Engineering Department**

- Parmar Jignesh Babul of BE (EC) Sem IV has received Rs.2500/- (J M Mehta Scholarship) for his academic achievement at B.E First year.

5. COLLEGE ACTIVITIES

* **MoU SIGNED**

Memorandum of Understanding (“MoU”) is done between **Bharati Foundation Scholarship Scheme** and **L.D.College of Engineering** for 5 years on 10/09/2006, signed by Prof. M.N.Patel, Principal, L.D.College of Engineering. Prof. B.H.Shah (Chemical Dept.) is working as an Institute Coordinator for Bharati Foundation Scholarship Scheme. Hetal A.Joshiara is working as a Coordinator (IT department) for Bharati Foundation Scholarship Scheme. More than 8 students have been benefited by the Bharti Foundation Scholarship Scheme (Information Technology) during last four years.

* **GOLD MEDAL CEREMONY AT GICEA**

GICEA organizes a function every year to award prizes to the meritorious students and the elective papers from final year Civil Engineering department of L.D.College of Engineering, Ahmedabad. This year Prof. M.N.Patel, Vice Chancellor (GTU) was invited to preside over the Gold Medal ceremony on 13th June-2009. Congratulating the recipients of the award, he advised them to meet with the challenges and opportunities of life. Being a life member of GICEA and impressed by the activities of the association (which vary from social services to technical and professional), he asked every one of them to shape their personality through activities of GICEA. He advised them to be alert for signs of change and accept them thoughtfully and cautiously. In his speech, he mentioned about the top priority attached to technical education by Government of

Gujarat through establishment of IIT extension center at VGEC, IIT at Gandhinagar and GTU at Ahmedabad, the ultimate goal being standardization of technical education and that too of international standard. He made a specific mention to the **Panchamrti Yojna** introduced by Government of Gujarat for the upliftment of downtrodden, women, entrepreneurs, businessmen and students, which has been evolved after deliberations with experts in various fields.

*** PLACEMENT SCENARIO TILL JUNE-2009**

Campus interviews were conducted at the college through which 238 students got selected. Department wise details are as follows :

Department	Placement	Department	Placement
Civil	19	EC	32
Mechanical	50	I C	23
Electrical	30	Computer / IT	27 / 19
Environment	12	Textile	2
Chemical	16	Bio-Medical	5
Plastic	1	Automobile	2

The major companies which visited our institute for campus interview were L&T, TCS, Infosys, Tech Mahindra, Tata Power, L&T ECC, Essar, Infochip, NI, Gea Process, e-infochip, Vedanta, Welspun, GHCL, Torrent Power, Transformer & Rectifier, Ingersoll Rand, Alembic Pharmaceuticals, Hi-Rel Electronics, Ambuja Cements etc.

*** CAREER COUNSELLING SEMINAR**



Principal Prof.M.N.Patel -Vice Chancellor GTU addressing the gathering at Career counseling programme

A Career Counseling Seminar for 12th std. students – Group A was organized, under the auspices of LAA at Thakorebhai Desai Hall on 24th May – 2009, which was attended by anxious parents and curious students in large number, in order to secure guidance from experts coming from renowned institutes like L.D.College of engineering,

Nirma Institute of Technology, etc. The audience had queries related to job prospects, percentage score and its implication on their future career options and about the new on-line admission procedure. Prin.M.N.Patel, who is also the Member Secretary for Admission Committee for Professional Courses provided detail information about the on-line admission procedure which is undertaken for the first time in the State of Gujarat and clarified the doubts of the worried parents. The programme proved to be a grand success.

6. INDUSTRIAL PROJECTS UNDERTAKEN

*** Environmnet Engineering Department**

- Environmental Audit of industries, which is an ongoing activity for the whole year, requiring periodic monitoring and visits to the industry.

7. TESTING / CONSULTANCY WORK

*** Environment Engineering Department**

- Testing amount : Rs. 87,000 /-
- Consultancy : Rs. 1,74,000 /-

8. GTU ACTIVITES

GTU has completed the revision of syllabi for 3rd and 4th Semesters for various disciplines of Engineering across the state.

The process of providing a single window entry to MBA and MCA courses throughout the state by conducting Gujarat Common Entrance Test (GCET) has been entrusted to GTU from the current academic year by Government of Gujarat.

GTU is also busy co-ordinating the examination process for Post Graduate Engineering courses across the state from the current academic year.

9. AMBEDKAR JAYANTI CELEBRATION



Principal Prof.M.N.Patel garlanding the portrait of Dr.Ambedkar on his Birth Anniversary

118th birth anniversary of Dr.B.R.Ambedkar, savior of the downtrodden and weaker section of the society and the Chairman of the Draft Committee of Indian Constitution, was celebrated on 14th April, 2009 at Central Library of the college. On this auspicious occasion, Principal, Shri M.N.Patel garlanded the portrait of Dr.Ambedkar as a mark of respect and honor. The Principal and Heads of Departments lighted the lamp in remembrance of great

contribution of Dr.Ambedkar in building the Constitution of the Republic of India. All the faculty members and other staff members also paid floral tributes to Dr.Ambedkar. Shri B.M.Bhalakia and Shri M.P.Vanker addressed the gathering and expressed their views with regard to the contribution made by Dr.Ambedkar in overall development of the nation and upliftment of the weaker section of the society. Shri B.F.Pandya proposed a vote of thanks.

10. WORKSHOPS/SEMINARS/STTP/CONFERENCES ETC. PARTICIPATED BY FACULTY

General Department

Sr.No.	Title	Name of Staff	Place	Duration
1.	Linear algebra and differential equation	Smt.D.A.Patel Shri K.I.Patel Ms. R. M. Patel	I.I.T, Bombay	10/05/2009 to 23/05/2009

Instrumentation & Control Engineering Department

Sr.No.	Title	Name of Staff	Place	Duration
1.	Graphical System design fundamentals using LabVIEW	Shri R.C.Patel	IUCEE (Indo-US collaboration for Engineering Education) at Mysore Infosys Training Centre.	29/06/2009 to 03/07/2009

Electrical Engineering Department

Sr.No.	Title	Name of Staff	Place	Duration
1.	Synergy Energy Program	Ms.Kinjal Kharadi Ms.T.P.Shah	Tagore Hall, conducted by Honourable Minister Shri Jay Narayan Vyas	17/06/2009 to 18/06/2009

Computer Engineering Department

Sr.No.	Title	Name of Staff	Place	Duration
1.	Data Structure	Ms.H.M.Diwanji	IUCEE, Mysore	22/06/2009 to 26/06/2009

Mechanical Engineering Department

Sr.No.	Title	Name of Staff	Place	Duration
1.	Advances in Boiler	Shri V.M.Makwana Kum.P.P.Shah Shri M.C.Gohil Smt.S.J.Trivedi Shri J. D.Gandhi Shri K.A.Patel Shri N.B.Rawat	Nirma University, Ahmedabad	25/05/2009 to 29/05/2009

2.	Robotics	Shri J. G. Patel Shri N. J. Prajapati Smt.H.D.Upadhyay Smt.D.N. Yagnik	Nirma University, Ahmedabad	25/05/2009 to 29/05/2009
3.	National conference on "Synergy with Energy – 2009"	Prof.Smt.B.V.Dave Shri M. C. Gohil	Tagore Hall, Ahmedabad	18/06/2009 to 19/06/2009
4.	National symposium on "Structure & transport property of thermal evaporated Bi _{1.8} Pb _{0.2} Sr ₂ Ca ₂ O ₁₀ Films"	Prof.Smt.B.V.Dave	IIT, Bombay	08/05/2009 to 09/05/2009

Chemical Engineering Department

Sr.No.	Title	Name of Staff	Place	Duration
1.	Coping Challenges of Uncertainty	Prof.D.J.Desai	Mount Abu	21/05/2009 to 25/05/2009

Environment Engineering Department

Sr.No.	Title	Name of Staff	Place	Duration
1	Workshop on Eco- Industrial Parks	Ms.H.S.Syed	FICCI GTZ, Ahmedabad	04/05/2009

11. M.E. DISSERTATION

Instrumentation and Control Engineering Department

Sr.No.	Title	Student	Guide
1	Picoblaze in FPGA for Real time Temperatura Control Application	Bhavina Patel	Shri R.C.Patel

Mechanical Engineering Department (CAD / CAM)

Sr.No.	Title	Student	Guide
1	Application of Taguchi Method for the Optimization of Green sand casting process parameters	Manish J.Vora	Prof.P.B.Patel
2	Application of Quality function deployment as a functional approach for economic design and manufacturing strategic planning	Darshit R.Shah	Prof.P.B.Patel

Electrical Engineering Department

Sr.No.	Title	Student	Guide
1	Multi-Objective Generation Scheduling Using Genetic Algorithm	Gajera Jaydeep V.	Prof. G.A.Patel
2	Ac Power Flow Analysis With Static Synchronous Compensator By Unified Newton-Raphson Method	Gavit Mukeshkumar B.	Shri V.J. Upadhyay
3	Design Features And Lightning Protection Of Wind Turbine	Kubavat Aakash M.	Prof. V. B. Babaria
4	Determination Of Optimal Placing & Enhancement Of Voltage Stability Margin With Distributed Generation	Jhala Mahipalsinh B.	Prof. B.P. Patel

5	Available Transfer Capability Enhancement Using MATLAB Programming For Congestion Management	Patel Vishnubhai B.	Prof. B.A. Shah
6	Vector Control Of Three Phase I.M. And Simulation Using CASPOC	Shah Komal S.	Prof. B.A. Shah
7	Continuation Power Flow	Vaghamshi Ashokkumar L.	Prof. J.N.Swamy
8	Real & Reactive Power Flow Using Unified Power Flow Controller	Vaghasiya Bhavesh C.	Prof. A.D. Joshi
9	Economic Load Dispatch Using Evolutionary Technique	Vyas Sanjay R.	Prof. B.P. Patel

Applied Mechanics Department

Sr.No.	Title	Student	Guide
1	Weight Comparison Between Guyed and self Supporting Structures in Transmission Line Towers	Rajesh J.Patel	Prof. M.H.Rangwala
2	Analysis Design Of Composite Plate Girder Road Bridge Using MIDAS Civil software	Jignesh V.Patel	Shri M.H.Aghara
3	Automated Design Charts and Software for Design of Deep Beams	Devang V.Chotaliya	Prof.(Dr.) R.K.Gajjar

Environment Engineering Department

Sr.No.	Title	Student	Guide
1	Techno –Economic Feasibility of Mobile Sewage Treatment Plant	Darshana Patel	Prof.(Dr.) N. S. Varandani
2	Performance evaluation of 66 MLD ASP based Sewage Treatment Plant for Vadodara city.	Ankit Jain	Prof.(Dr.) N. S. Varandani

Civil Engineering Department

Sr.No.	Title	Student	Guide
1	Comparison of Economic Evaluation using HDM-4 and IRC:SP:30-1993	Priti.A.Yadav	Dr.P.J.Gundaliya
2	Traffic-Analysis for Four Lanning of Road Section on Commercial Format, Case Study of Bagodara - Bhavanagar Road.	Amitkumar.R.Prajapati	Mr.Ashesh Patel
3	A model of Pedestrian Behavior At Midblock Section.	Ketan.K.Patel	Shri H.K.Dave