



LDCE

NEWS LETTER

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L. D. COLLEGE OF ENGINEERING AHMEDABAD-15

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BOOK-POST

To,

1. FROM THE DESK OF THE PRINCIPAL



Dear friends,

The Sun of 2009 would have already set on the horizons by the time you are in receipt of this issue and we would have headed towards more challenging new year, but with more promises to be fulfilled. I would like to put on record a few achievements made by us in the year 2009 :

1. Establishment of Centre of excellence by CSM in the area of Industry-Institute interaction.
2. Setting up of VLSI Prefab Lab by Powailab, IIT Mumbai at E.C. Department with IIT, Mumbai providing free web based learning in the subject.
3. Signing of an MoU between LDCE and IETE to provide infrastructure and library facilities for ALCCS (Advance Level Course in Computer Science). The course is equivalent to M. Tech.
4. Selection of L.D. College of Engineering as a Regional Centre of IUCEE.
5. Short-term IT and non-IT programs run by four agencies in the campus nominated by Gujarat Knowledge Society.
6. Post graduate course offered in Computer Engineering branch.

At GTU, the use of Information and Communication Technology (ICT) has been widely adopted at various places and as Vice Chancellor of GTU, I would like to bring to your knowledge a few more accomplishments made last year.

Use of ICT in education :

Information and Communication Technology (ICT) is universally acknowledged as an important catalyst for social transformation and national progress. Our country actively promotes the use of ICT in the formal education sector today. ICT is a potential driving force in the educational reforms and it supports teachers in adopting new ways of teaching and learning. A programme for promoting ICT use in education should result in technology being used not to extend or replicate the traditional class room model but rather to fundamentally change the instructional paradigm, with ICT's serving as levers for system-wide curricular reform and educational change. New educational technologies do not curb the need of teachers, but they call for a redefinition of their profession. The out come of ICT in education projects ultimately depend on those at the very heart of education : teachers. Therefore, the teachers are at the core of our programme. The role of teacher has changed and continues to change from being an instructor to a facilitator, a constructor, coach and creator of learning environments. Today's teachers are required to be (1) Facilitators helping learners to make judgments about the quality and validity of new sources and knowledge. (2) Open-minded and critical independent professionals. (3) Active co-operators and collaborators. (4) Mediators between learners and what they need to know. (5) Providers to scaffold understanding.

GTU has been awarded the prestigious MANTHAN AWARD SOUTH ASIA 2009 for the innovation and ICT content in its application for successful completion of GCET examination in the year 2009.

GTU has already acquired the status of ICT enabled university and has adopted systematic integration of ICT in various applications right from counseling of all professional courses in the state, allocating the seats on the basis of academic and GCET score of individual students in association with National Informatics Centre (NIC, New Delhi). The examination process was conducted through the entire state by supplying the encrypted question paper for each institute directly on network printer connected all over Gujarat through GTUWAN. Two level transparent answer sheet mechanisms through barcode and OMR scanning of answer book helped to generate result in a faster way. e-assessment of question paper and multiple assessment of student answer book is the future plan envisaged. It is also planned to conduct on-line mid-term examination, on-line submission of encrypted question paper by paper setter through GTUWAN and create web portal for students, teachers and administrators of GTU as well as institutes. The unique experience of conducting GCET examination for the entire state in five days and declaration of results through instantaneous evaluation of candidate responses ensured individual scores and allocation of seats based on the

merit of individual students, speaks volumes about the achievements of GTU.

Finally, I will conclude with the following remark : **“The illiterate in the 21st century will not be those who cannot read or write but those who cannot change”**. We leap forward to the next decade with the strong desire to change and I am sure with your continued co-operation the goals will not be far off to be achieved.

Wish you all a very happy New Year.

Ahmedabad

Date : 31/12/2009

2. PAPERS PRESENTED/PUBLISHED

□ Mechanical Engineering Department :

- * Shri D.B.Jani and Shri N.J. Prajapati presented a paper on **“Structural Design and Analysis of a Exhaust Valve of Diesel Engine”** at a National Conference on **Current Trends in Technology** organized by Institute of Technology, Nirma University, Ahmedabad from 25/11/09 to 27/11/09
- * Shri D.B.Jani, Shri S.B.Vala and Shri N.J. Prajapati presented a paper on **“Thermal Analysis of Exhaust Valve of Diesel Engine using ANSYS”** at a National Conference on **Advances in Heat and Mass Transfer(AHMT-09)** organized by Finolex Academy of Management and Technology, Ratnagiri from 30/10/09 to 31/10/09.
- * Prof. J. M. Patel presented a paper on **“Mathematical models for Angular Distribution of Sky Diffuse Radiance and Luminance: A Review”** at 4th National Conference on **Current Trends in Technology-NUCONE-2009** held at Institute of Technology, Nirma University, Ahmedabad from 25/11/09 to 27/11/09.

□ Electrical Engineering Department :

- * Mr. Ashok Vagamshi, Lecturer in Electrical Engineering presented a paper on **“A Methodology for Selective Localisation of Capacitor Banks for Power Systems”** in 3rd International Conference on **Power Systems – 2009** at IIT, Kharagpur from 27/12/09 to 29/12/09.
- * Ms. Pallavi Sankaria, Lecturer in Physics presented a paper on **“Study on Transport Properties of Bi₂Se₃ single crystal grown by vapour phase technique”** in **DAE Symposium** at Vadodara on 14/12/09.

□ Applied Mechanics Department :

- * Papers were presented by the Faculty of the department at various conferences, details of

which are as follows :

- * At 4th National Conference on Current Trends in Engineering (NUCONE-2009), Nirma University, Ahmedabad, November 09 :-

| Sr.No. | Title | Author |
|--------|--|---|
| 1 | Revival of Auto Redundant Grid Analysis Technique | Prof. M. N. Patel, Vice-Chancellor, Gujarat Technological University A. G. Hansora |
| 2 | Design of composite deck slab taking effect of steel profiled decking | Prof.M.H.Rangwala Hardik Shah |
| 3 | Performance of RCC Box type Superstructure in Curved bridges | Dr. B. J. Shah Tejas Patel |
| 4 | Study of progressive collapse due to blast | Prof. C. S. Sanghvi Rutvik Dave |
| 5 | Low cost shake table & instrumentation set up | Prof. C. S. Sanghvi Jigar Rana |
| 6 | Study of soft storey effect through shake table testing | Prof. C. S. Sanghvi Dhyan H. Jadav |
| 7 | Effect of grid spacing on grillage analogy analysis | Prof. B. J. Panchal Chintan Bhavsar |
| 8 | Parametric Study of weight / surface area of Double-layer Braced Barrel Vaults | Dr.N.K.Arora Gaurang Gajjar |

- * At BITS, Pilani International Conference on Advances in Concrete, Structural and Geotechnical Engineering (ACSGE-2009), BITS, Pilani, 25th to 27th October 09 :

| Sr.No. | Title | Author |
|--------|--|---------------------------------------|
| 1 | Design aids for steel flexural member based on IS 800-2007 | Prof.M.H.Rangwala Pinkle Suthar |
| 2 | Design of suspension type self supporting towers in transmission line structures | Prof.M.H.Rangwala Rajesh Patel |
| 3 | Design of flexural and compression members using composite sections | Prof.M.H.Rangwala Hardik Shah |
| 4 | Experimental studies for semigrd connections | Prof.M.H.Rangwala Khyati Shah |
| 5 | Analysis Design and parametric study of composite columns | Dr.R.K.Gajjar A.L.S.V.Suryanarayan |

| | | |
|----|---|--|
| 6 | Automated Across wind response of tall buildings | Dr.R.K.Gajjar Puja Poddar |
| 7 | Parametric study of RCC frames subjected to Blast loads. | Dr.R.K.Gajjar Raj Mayursingh Zala |
| 8 | Shear Strengthening of RC beams with CFRP laminates | Dr.N.K.Arora Balar Dhruv |
| 9 | Selection of Substructure system for Jetty structures | Dr.N.K.Arora Nirav Pipaliya |
| 10 | Buckling behavior of Steel Braced Barrel vaults with different configurations under different rise-span ratio | Dr.B.J.Shah Mulesh Pathak |
| 11 | Dynamic response of a building by shaking table testing | Dr.B.J.Shah Prof.C.S.Sanghvi Dhyan Jadav |

- * At 5th National Conference on Wind Engineering (Wind-2009), SVNIT, Surat, November 09 :

| Sr.No. | Title | Author |
|--------|--|---|
| 1 | Computation of wind force on a Braced Dome using Image Processing Techniques | Dr. B. J. Shah Dr.H.S.Patil, Prof. SVNIT, Surat |
| 2 | Weight comparison of Transmission line tower based on wind category | Prof. C.J.Patel Hemang Trivedi |

□ Chemical Engineering Department :

- * Paper on “**Emerging Usage and Issues of Biodegradable Plastics Waste Generation**” by Prof. D. J. Desai, Prof.R.N.Desai and Prof. J. M. Patel has been accepted for an International Conference on **Solid Waste Management** held at Bangladesh during 9th to 10th November 09.
- * Paper on “**Tsunami of Emerging Pollutant-‘E- Waste’ and technologies to overcome them**” by Prof. D. J. Desai, Prof. N. S. Varandani and Prof. B. H. Shah has been accepted for an International Conference held at AMV-Aligarh during 26th to 28th October 09.
- * Paper on “**Jumbo flexible Bags-Jumbo business for Agripreneurs with Technology Transfer to Farmers**” by Prof. D. J. Desai, Prof. B. H. Shah and Ms. Purvi Choksi has been accepted for an International Conference on **Agripreneurship & Rural Development** at Banaras Hindu University, Banaras held during 5th to 6th December 09.

* Prof.D.J.Desai presented a paper on **"Emerging Polymers used in Optical Fibers"** at National Seminar on **Emerging Trends in Polymer Science and Technology** organized at Rajkot from 8/10/09 to 10/10/09, Co-authored by Prof.B.H.Shah and Prof.S.B.Thakor.

* Prof. D. J. Desai was invited to attend International Conference at University of Guilan, Rasht, Iran, by Conference President during 27th to 29th October 09.

□ **Civil Engineering Department :**

* Kande S.D., Majumdar and Lodha P.P presented a paper on **"Sedimentation distribution – A case study of Khodiar reservoir"** in an International Conference **ICAMB-2009** organized at VIT University, Vellore, Tamilnadu on 14/11/09.

* Kande S. D., Majumdar P. K. and Lodha P. P. presented a paper on **"A serious reservoir sedimentation and its impact in Khodiar reservoir"** in a National Conference **Advances in Civil Engineering**, organized at PIT Vadodara on 15/12/09.

* Manoj J. Gundaliya., Majumdar P. K., Sherasia N.K. presented a paper on **"Parameters Estimation of NASH Model in a semi-arid poorly gauged catchments using hydrograph analysis"** at a multi-disciplinary National Conference on **Emerging vistas of technology in 21st century** organized at Parul Institute of Engineering Technology, Vaghodia on 10/10/09.

* C.G.Patel., M.B.Dholakia., N.K.Sherasia presented a paper on **"An application of RS and GIS" flood Urban mapping at Chennai"** in a National Conference at Velammal Engineering College on 9/10/09.

* Amin Swetal, A.I.Lalani presented a paper on **"Environmental impact Assessment"** in a National Conference at Nirma University, Ahmedabad on 12/11/09.

* Amin Swetal, A.I.Lalani presented a paper on **"A case study of surface water quality of Umariya region"** in a National Conference held at Delhi on 15/10/09.

3. DEPARTMENTAL ACTIVITIES :

□ **Applied Mechanics Department :**

* Applied Mechanics Department co-ordinated a training program on **"Earthquake resistant Building design and Technology"** for professional engineers of Rajkot district funded by Gujarat State Disaster Management Authority during 26th to 30th October 09. Prof.C.S.Sanghvi and Prof.B.J.Panchal were the coordinators of

the programme.

* Applied Mechanics Department co-ordinated a workshop on **"Earthquake resistant Building design"** for professional engineers of Bhavnagar Municipal Corporation funded by Gujarat State Disaster Management Authority on October 2009. Prof.C.S.Sanghvi co-ordinated the programme.

□ **Civil Engineering Department :**

* Prof.K.M.Shah has joined as Professor and Head of the Civil Engineering Department on 22/11/09.

* **ISTE NATIONAL AWARD FOR BEST MTECH THESIS IN CIVIL ENGINEERING 2009** has been awarded to **"Mini design optimization for flexible pavement Using Genetic algorithm"** submitted by Mr.Ashutosh.K.Patel, Guided by Dr.P.J.Gundaliya.

□ **Environment Engineering Department :**

* An expert lecture was delivered on 1st October on **"Climate Change : An Indian Perspective"** by Shri Mahesh Pandya.

* The department has arranged a Lecture series on Subject **"Bio-Energy & Climate Change"** to be organized on every 3rd Saturday of each month. In this context, the first interactive session was organized on 21st November by Prof. Dr. N.S. Varandani.

* The department has launched the web-site depicting the activities of Faculties and Students.

4. FACULTY ACTIVITIES :

□ **Electrical Engineering Department :**

* Prof. A.D.Joshi delivered a lecture on Effective teaching of **"Trends & Applications of Microprocessors"** at the workshop held at Vishwakarma Hall, Electrical Engineering Dept., L.D.College Of Engineering on 10/12/09 under IUCEE.

* Prof.J.N.Swamy delivered a lecture on Effective teaching of **"Simulations for Engg. Problems"** at the workshop held at Vishwakarma Hall, Electrical Engineering Dept., L.D.College Of Engineering on 10/12/09 under IUCEE.

□ **Chemical Engineering Department :**

* Prof.B.H.Shah and Prof.R.N.Desai worked as Experts for procurement of Equipments for central purchase committee formed by Directorate of Technical Education for Chemical Engineering & Plastics Technology Equipments.

□ **Computer Engineering Department :**

* Mrs. Hiteishi M. Diwanji conducted a one day workshop on **"Advanced data structures"**

covering the topics Binary search trees and AVL trees. The work shop was very well received by the participants as it covered the problem solving session of designing the data structure of IP routing.

□ **Mechanical Engineering Department :**

- * Prof. J .M. Patel was invited by Solar Energy Society of India (Indian section of International Solar Energy Society) as an Invited Speaker for the **International Congress on Renewable Energy : ICORE-2009** from 6/10/09 to 7/10/09 held at New Delhi. Prof. Patel presented the speech on the topic of **“Recent Trends on Solar Power- Daylighting”**.

□ **Textile Technology Department :**

- * Prof.G.C.Brahmbhatt worked as expert for procurement of software for Textile Engineering department of Polytechnics on 11/12/09.
- * Prof.G.C.Brahmbhatt worked as member of syllabus committee for finalization of syllabus/teaching scheme for V to VIII Semesters of Textile Technology/Textile Processing courses at GTU on 2/12/09.
- * Prof.G.C.Brahmbhatt attended the first steering committee meeting of State level anchor Institute, NIFT, Gandhinagar on 5th of October 09 as DTE nominee.

□ **Applied Mechanics Department :**

- * Prof. C. J. Patel, delivered an expert lecture on **“Some thoughts on Structural Engineering”** in annual session of Institutions of Engineers (India), Gujarat Centre on 29/11/09.
- * Prof. C. J. Patel co-ordinated a session on 10/12/09 in the Effective Teaching and Outcome Based Curriculum workshop related to the Course Learning Objective. He addressed the participants from Applied, Civil and Environment on the topic **“Why learn to teach”** in which MOS was taken as a sample for discussion of the above ideas.
- * Dr. R. K. Gajjar was invited for a lecture on **“Innovations in Curriculum”** at ISTE State Convention.
- * Dr. R. K. Gajjar presented a paper at NITK Surathkal on **“Collaboration for outcomes based curriculum”** at ISTE National convention. She has also prepared draft MOU between GIDC and DTE.
- * Dr. R. K. Gajjar conducted training program on **“Effective Teaching and outcome based curriculum”** at college level with 72 participants during 9th to 11th December 2009.
- * Dr. R. K. Gajjar has coordinated syllabus for all P.G. courses under GTU.

- * Dr. H. S. Patel, Assistant Professor delivered an expert lecture on **“Seismic design Water tanks”** in a training program on **Earthquake resistant Building design and Technology** for professional engineers of Rajkot district coordinated by L. D. College of Engineering & Gujarat State Disaster Management Authority during 26th to 30th October 2009.

- * Dr. H. S. Patel, Assistant Professor acted as a committee member for framing curriculum of Under Graduate Civil Engineering course for GTU.

- * Dr. H. S. Patel, Assistant Professor has drafted rules and regulations for Doctoral Programme to be started under GTU.

- * Dr. B. J. Shah, Assistant Professor delivered an expert lecture on **“Seismic design of Bridges”** in a training program on **Earthquake resistant Building design and Technology** for professional engineers of Rajkot district coordinated by L. D. College of Engineering & Gujarat State Disaster Management Authority during 26th to 30th October 2009.

- * Prof. C. S. Sanghvi and Prof. B. J. Panchal conducted training program on **“Earthquake resistant Building design and Technology”** for professional engineers of Rajkot district, funded by Gujarat State Disaster Management Authority during 26th to 30th October 2009.

- * Prof.C.S.Sanghvi also delivered a series of lectures at training programmes/workshop related to **“Earthquake resistant Building design and Technology”** at following places :

- a) For professional engineers of Bhavnagar Municipal Corporation funded by Gujarat State Disaster Management Authority on 23rd October 2009.

- b) For professional engineers of Rajkot district coordinated by L. D. College of Engineering & Gujarat State Disaster Management Authority from 26th to 30th October 2009.

- c) For professional engineers at SPIPA by Gujarat State Disaster Management Authority on 18th November 2009

- d) For engineers from R & B Department of GoG at Staff Training College, Gandhinagar on 20th November 2009.

- e) For students of Shantilal Shah Engineering College, Bhavnagar by Gujarat State Disaster Management Authority & United Nations Development Programme from 17th to 18th December 2009.

The various topics which were covered by him were :

- Philosophy and principle of earthquake resistant design

- Structural Dynamics & Lateral load distribution
- Observations of past Earthquake
- Damage Assessment & Rapid visual screening
- Earthquake resisting systems- Shear wall & Bracing Systems
- Learning from failures in past Earthquake
- International Earthquake Engineering Practices
- Ductile detailing & its importance

* Prof. B.J.Panchal, Assistant Professor delivered expert lectures on

- Seismology, Ground motion parameters
- IS : 1893 provisions & evaluation – building
- Concept of Ductile Detailing & Ductile and brittle failure mode of structures & exposure to IS 13920- 1993

in a training program on “**Earthquake resistant Building design and Technology**” for professional engineers of Rajkot district coordinated by L. D. College of Engineering & Gujarat State Disaster Management Authority during 26th to 30th October 2009.

* Prof. Binita Vyas co-co-ordinated a session on 10/12/09 in the Effective Teaching and Outcome Based Curriculum workshop related to activity based event on the Course Learning Objective.

□ **Environment Engineering Department :**

* Prof. Dr.N.S. Varandani **delivered** a lecture on “**High rate anaerobic reactors for industrial wastewater**” on 7/12/09 at International Conference on **Environmental Issue in emerging economies – India & Canada** organized by Department of Chemistry, Gujarat University. He also chaired the session at the same conference on 8/12/09.

* Prof. Dr. N.S. Varandani delivered a lecture on “**Bio-Remediation of Polluted Site**” at **Eco Sarjan Event**, organized by SEP on 18/12/09 GCII, Ahmedabad. He also chaired the session at the same event and participated in the Panel Discussion for the same.

* A new experiment namely “**Removal of hardness using sodium Zeolite resin and regeneration of the resin**” was set up by Prof.Dr.N.S.Varandani.

5. STUDENTS’ ACTIVITIES :

□ **Applied Mechanics Department :**

* A quiz competition was organized for the BE Sem VII (Civil) & PDDC Sem V (Civil) students in the area of Earthquake Engineering on 20th November 2009.

Industrial Visit

- A study tour of one of the very ambitious and multifaceted project of Ahmedabad Municipal

Corporation – Sabarmati River Front Development Project was arranged on 01/12/09 in which all students of B.E.Sem-VII (Civil), M.E. (Civil), Faculty members of Civil Engineering and Applied Mechanics department actively participated.

□ **Electrical Engineering Department :**

* Mr. Aakash Kubavat, M.E. student presented a paper on “**Problems related to Power Quality Issues & their Possible Solutions**” in a conference **Power Quality Issues in the Deregulated market** at Shrinath Institute of Tech. & Engineering, Nathdwara, Rajasthan on 21/11/09

□ **Chemical Engineering Department :**

* Ms. Twinkle H. Shah & Mr. Paresh Rana presented a paper on “**Energy Conservation in Distillation Column**” in 4th International Conference on **Current Trends in Technology** held from 25/11/09 to 27/11/09 at Nirma University, Ahmedabad.

Industrial Visits :

- Final year Rubber Technology Students visited Satnarayan Rubber Products company at Rakhiyal on 10th November 09 along with Ms. Anal Bhatt.
- M.E. Chemical Engineering First year Students visited Scientific Industry at Vatva on 8th December 09 along with Ms. T. H. Kothari, Shri Amar Vaghela and Ms.H.N.Pandya.

□ **Textile Technology Department :**

Industrial Visits :

- * Industrial visits were arranged for B.E.Sem V students at the following places :
 1. Bharat Vijay Mills, Kalol on 5/10/09.
 2. Aarvee Denim, Narol on 6/10/09.
- * Final year students visited Bharat Vijay Mills, Kalol on 9/10/09

□ **Environment Engineering Department :**

Industrial Vistis

- * Industrial visits were arranged for students of M.E. Sem.-I (Env) at following places:
 1. Naroda Enviro Project Limited, Naroda
 2. Green Environment Services Co-operative Soc., Vatva

6. COLLEGE ACTIVITIES :

* **L.D.College Of Engineering – Mechanical Engineering Dept.** signed an **MoU** with **L & T, Baroda** under L & T build India Scholarship Programme. L & T will sponsor second year students of M.E. from Chemical, Mechanical, Civil, Electrical and other such departments.

These students will carry out their project work in L.D. College of Engineering and/or L & T premises, Baroda, Powai, Hazira, Faridabad project sites.

- * Indian Red Cross Society organized state level work shop at L.D.College Of Engineering for the various blood donation camp organizers on 1st October 2009. Institute was awarded with outstanding blood donor organization for the sixth consecutive time. Shri Amarjit Singh(IAS), Secretary, Health Department remained present at the function as Chief Guest & Prof.M.N.Patel, Officiating Vice Chancellor, Gujarat Technological University was the Guest of Honour at the function. 19 mobile vans for blood donation were flagged off from the institute which is considered to be the unique event of its own kind in India. To spread the message & importance of voluntary blood donation it was intended to cover 2000 villages before 31st December 2009. Prof.C.S.Sanghvi is selected as a volunteer for the Ahmedabad District to spread the same message.

PLACEMENT

- * Approximately 70 students are placed in the following companies for 2010 through placement at the college: Tata Motors, Linde Engineering, L&T, Cybage Software, Atul Limited, Arvind Mills, Zeus Learning and TCS. Forth coming companies are LNG Bhilwara, Essar, Vedanta and Gujarat Gas.

7. INDUSTRIAL PROJECTS UNDERTAKEN :

□ Environment Engineering Department :

- * Consultancy titled : No increase in pollution load for M/s Govind Laboratories Private Limited.
- * Consultancy titled: Adequacy of EMS System of Proposed Jindal Ship Yards.
- * Consultancy titled: No increase in pollution load for Loxim Industries Limited.
- * Environmental Impact Study for proposed CETP-ATPA, Narol, Ahmedabad.

8. TESTING / CONSULTANCY WORK :

□ Environment Engineering Department :

Testing amount : Rs. 1,75,000 /-
 Consultancy : Rs. 3,50,000 /-
 Total amount : Rs. 5,25,000 /-

□ Electrical Engineering Department :

Testing amount : Rs. 75,000 /-

□ Textile Technology Department :

Testing Amount : Rs.1,931 /-

9. GTU ACTIVITIES :

* Gujarat Technological University wins Manthan Award 2009



Shri Manish Bhardwaj IAS and office bearers of GTU accepting the MANTHAN Award

The newly setup Gujarat Technological University achieved yet another distinction on December 19, 2009. The recently concluded online examination – Gujarat Common Entrance Test(GCET) 2009 fetched GTU the very prestigious MANTHAN AWARD SOUTH ASIA 2009 for the innovation and ICT content in its application.

GTU was recognized by the MANTHAN AWARD as one of the most innovative concept and was duly awarded the prestigious and coveted amongst all categories at the South Asia level – the Chairman's Distinction Award. In this category apart from Bangladesh and Pakistan were also felicitated.

GTU had earlier won the e-India Award 2009.

10. IUCEE ACTIVITIES :

L.D.College of Engineering has been nominated as a Regional Centre and has conducted periodic workshops on technical content and effective teaching techniques for faculty of institutions in Gujarat. The last workshop was conducted on Effective Teaching and Outcomes Based Curriculum aims to create leaders within each department to champion curriculum innovation as an ongoing practice. 81 faculty members from all departments of LDCE participated in the 3 day workshop coordinated by the 8 faculty members, who were trained at Infosys Mysore by US experts. Process of writing Learning Objectives for GTU syllabus has been initiated and techniques for Active Learning were imparted at the workshop.

Follow-up and Outcomes have been encouraging, as a result of which LDCE has emerged as a potential force spearheading outcomes based curricula. LDCE has been acknowledged for its leadership and has been invited to represent its efforts at the International Conference at Delhi on Emerging Directions in Global Education (EDGE), an elite platform shared by major corporates and institutions from across the world.

11. WORKSHOPS/SEMINARS/STTP/CONFERENCES ETC. PARTICIPATED BY FACULTY :

General Department :

| Sr.No. | Title | Name of Staff | Place | Duration |
|--------|-------|----------------|------------------|----------------------------|
| 1 | CCC+ | Shri K.I.Patel | SPIPA, Ahmedabad | 26/10/09 to 11/11/09 |

Electronics & Communication Engineering Department :

| Sr.No. | Title | Name of Staff | Place | Duration |
|--------|-------------------------------|---|--|----------------------------|
| 1 | Training on Image Processing | Mrs.P.V.Pithadia | L.D.R.P | 30/11/09 to 4/12/09 |
| 2 | Work-shop on CCNA | Shri J.P.Raval Shri K.P.Acharya Shri R.B.Gajjar Shri M.V.Patel Shri D.T.Ratnakar Ms.Dhara Sanghavi | L.D.College of Engineering, Ahmedabad | 21/12/09 |
| 3 | Work-shop on CPLD Trainer kit | Shri J.P.Raval Shri K.P.Acharya Shri R.B.Gajjar Shri M.V.Patel Shri D.T.Ratnakar Ms.Dhara Sanghavi | L.D.College of Engineering, Ahmedabad | 23/12/09 |
| 4 | Training on Matlab simulation | Mrs.P.V.Pithadia | SVNIT,Surat | 21/12/09 to 25/12/09 |

Mechanical Engineering Department :

| Sr.No. | Title | Name of Staff | Place | Duration |
|--------|---|--|--|----------------------------|
| 1 | Engineering drawing using CAD | Smt.K.R.Patel | SVNIT, Surat | 23/11/09 to 27/11/09 |
| 2 | Effective Teaching and Outcome Based Curriculum | Shri A.C.Pambhar Shri N.J.Prajapati Shri K.V.Fadadu Shri P.H.Shah Shri S.K.Modi Shri P.B.Gujarati Shri J.K.Patel | L.D.College of Engineering, Ahmedabad | 9/12/09 to 11/12/09 |

Instrumentation & Control Engineering Department :

| Sr.No. | Title | Name of Staff | Place | Duration |
|--------|---|-------------------------------------|--|---------------------------|
| 1 | Man & Rime Management | Shri N.B.Mehta | SPIPA | 9/12/09 to 11/12/09 |
| 2 | Effective Teaching and Outcome Based Curriculum | Shri K.C.Dave Kum.Chandni.V.Shah | L.D.College of Engineering, Ahmedabad | 9/12/09 to 11/12/09 |

Computer Engineering Department :

| Sr.No. | Title | Name of Staff | Place | Duration |
|--------|---|--|--|-------------------------------|
| 1 | Hands on Projects for Computer System Education | Mrs.Hiteishi.M.Diwanji Mrs.Purvi.N.Ramanuj Mr. V.G.Patel | S. K. Patel College of Engineering, Visnagar (N.G.). | 30/11/2009 to 5/12/2009 |
| 2 | Effective Teaching and Outcome Based Curriculum | Mrs.Hiteishi.M.Diwanji (Coordinator) Ms.Hetal.A.Joshiyara Ms.Toral Bhavsar Ms.Soniya.R.Jain Ms.Nidhi Purohit Ms.Richa Sinha Ms.Twinkle Chauhan | L.D.College of Engineering, Ahmedabad | 9/12/09 to 11/12/09 |

Electrical Engineering Department :

| Sr.No. | Title | Name of Staff | Place | Duration |
|--------|---|--|---------------------------------------|----------------------------|
| 1 | Circuit Simulation | Ms. J. P. Nair | VGEC, Chandkheda. | 10/10/09 to 11/10/09 |
| 2 | Effective Teaching and Outcome Based Curriculum | Ms.Kinjal Kharadi Ms.T. P. Shah Ms.F. K. Shah Ms.V.P. Joshi Ms.P. P. Shah Ms.D. K. Raval Ms.J. M. Nimavat Ms.Divya Panchotia Ms.Pallavi Sankaria | L.D.College of Engineering, Ahmedabad | 9/12/09 to 11/12/09 |

Chemical Engineering Department :

| Sr.No. | Title | Name of Staff | Place | Duration |
|--------|---|--|---------------------------------------|---------------------------|
| 1 | Stain removing in Textiles without CTC | Prof. R. N. Shukla Ms. Hetal Shah Ms. Purvi Shukla | Dinesh Hall, Ahmedabad | 2/11/09 |
| 2 | Matlab & its applications | Mrs.Rajul Bhatt Ms.Hiral Pandya | DDU University, Nadiad | 9/11/09 to 13/11/09 |
| 3 | Effective Teaching and Outcome Based Curriculum | Ms.Purvi Shukla Ms.Hetal Shah Shri A.D.Solanki Shri Nirav Solanki | L.D.College of Engineering, Ahmedabad | 9/12/09 to 11/12-09 |

Civil Engineering Department :

| Sr.No. | Title | Name of Staff | Place | Duration |
|--------|--|------------------|---------------------------------------|----------------------------|
| 1 | Cartographic Physical application in civil Engineering | Dr. N.K.Sherasia | Velammal Engineering College, Chennai | 16/11/09 to 25/11/09 |

| | | | | |
|---|---|---|--|---------------------------|
| 2 | Effective Teaching and Outcome Based Curriculum | Prof.A.I.Lalani Prof.J.N.Patel Prof.G.B.Modha Dr.P.P.Lodha Prof.N.N.Borad | L.D.College of Engineering, Ahmedabad | 9/12/09 to 11/12/09 |
|---|---|---|--|---------------------------|

Applied Mechanics Department :

| Sr.No. | Title | Name of Staff | Place | Duration |
|--------|--|---|--|----------------------------|
| 1 | Finite Element method and its application in Civil Engineering | Dr. B. J. Shah | IIT, Bombay | 12/10/09 to 17/10/09 |
| 2 | Earthquake Resistant Building Design and Techniques | M. D. Vakil | Rajkot | 26/10/09 to 30/10/09 |
| 3 | Effective Teaching and Outcome Based Curriculum | Prof.M.H.Rangwala Dr.H.S.Patel Dr.N.K.Arora Dr.B.J.Shah Prof.B.J.Panchal Prof.C.S.Sanghvi Prof.M.G.Vanza Ms.M.D.Vakil Ms.S.B.Sabugola Shri S.V.Kapadia | L.D.College of Engineering, Ahmedabad | 9/12/09 to 11/12/09 |

Environment Engineering Department :

| Sr.No. | Title | Name of Staff | Place | Duration |
|--------|---|--------------------------------------|---|---------------------------|
| 1 | Stain removing in Textiles without CTC | Ms.M.J.Pandya Ms.Pooja Modi | Dinesh Hall, Ahmedabad | 21/11/09 |
| 2 | Chemical Leasing | Prof.Dr.N.S.Varandani | Organized by Gujarat Cleaner at Hotel Fortune Landmark, Ahmedabad | 3/12/09 |
| 3 | Effective Teaching and Outcome Based Curriculum | Prof. G.H. Ban Ms. Pooja Modi | L.D. College Of Engineering, Ahmedabad | 9/12/09 to 11/12/09 |
| 4 | Effective Ecological & Economic pollution Control Solutions | Prof.Dr.N.S.Varandani | Organized by Gujarat chemical Association, Ahmedabad | 16/12/09 |
| 5 | Solid waste & waste water management | Ms.M.J. Pandya Ms.Apeksha Trivedi | GCII, Ahmedabad | 19/12/09 |

Textile Technology Department :

| Sr.No. | Title | Name of Staff | Place | Duration |
|--------|--|--|----------------------------------|----------------------------|
| 1 | 4 th National Conference TEXCELLENCE 09 | Prof.G.C.Brahmbhatt Prof.A.I.Thakkar Shri P.R.Patel Shri M.J.Chhatbar Shri H.N.Upadhyaya | Ahmedabad Management Association | 13/11/09 to 14/11/09 |

| | | | | |
|---|---|--|---------------------------------------|---------------------------|
| 2 | Stain removing in Textiles without CTC | Prof.G.C.Brahmbhatt Prof.A.I.Thakkar Shri M.J.Chhatbar | Dinesh Hall, Ahmedabad | 21/11/09 |
| 3 | Effective Teaching and Outcome Based Curriculum | Shri P.R.Patel Shri H.N.Upadhyaya | L.D.College of Engineering, Ahmedabad | 9/12/09 to 11/12/09 |
| 4 | Engineering of Functional Clothing | Prof.A.I.Thakkar | IIT, Delhi | 8/12/09 to 12/12/09 |

12. M. E. DISSERTATION :

Electronics & Communication Engineering Department :

| Sr.No. | Title | Student | Guide |
|--------|---|------------------------|-------------------|
| 1 | Implementation of GA and Its Comparison with PDA Algorithm for CDMA Based Multi-User Detection Techniques | Patel Jayeshkumar S. | Prof. K.G.Maradia |
| 2 | Design & Development of USB Based Multi Channel Digitizer | Vaghani Jalpaben P. | Prof. S.D.Joshi |
| 3 | Design and Implementation of Trellis Coded Vector Quantizer | Brahmbhatt Pinky J. | Prof. J.V.Dave |
| 4 | Basic link Adapation Algorithm and Metrics For Wireless MAN. | Patel Tushar K. | Dr. K.R.Parmar |
| 5 | e-voting System | Chaudhry Subhrat D | Dr. K.R.Parmar |
| 6 | Lossless Compression For Multi/Hyper spectral Images | Patel D.H. | Prof. S.D.Joshi |
| 7 | Adaptive Filtering Techniques For Acoustic Echo Cancellation | Patel Tejas S. | Dr. K.R.Parmar |
| 8 | GSM Speech Codec Algorithm Implemented On DSK-6713 | Joshi Ashvini D. | Prof. J.V.Dave |
| 9 | Power Control In CDMA | Sutariya Ketki M | Dr. K.R.Parmar |
| 10 | Mobile Wallet- A Mobile Commerce Application For Money Transaction | Gosai Paras | Dr. K.R.Parmar |
| 11 | Secure Data Hiding | Patel Reena M. | Prof. J.V.Dave |
| 12 | Forward Error Correction Using Convolution Encoder/ Viterbi Decoder Implementation | Chavda Vijay Nanjibhai | Prof. J.V.Dave |
| 13 | Spatial Resolution Enhancement Of Video For Post-Facto Analysis | Dave Tushar P. | Prof. S.D.Joshi |
| 14 | PCI Based Data Acquisition System for IR Camera | Vagadiya K. M. | Prof. S.D.Joshi |
| 15 | Image Compression Based On Zerotree Wavelet & Classified Vector Quantization | Muliya Priti J. | Prof. S.D.Joshi |
| 16 | MC-CDMA System & Its Performance Analysis | Sandhani R. P. | Dr. K.R.Parmar |
| 17 | Analysis Of OFDM Based WI-Max Simulation For Next Generation Wireless Communication | Dawda Sandip J. | Prof. C.R.Parekh |
| 18 | Design of 3G CDMA Cell Planning Software | Mehta Ravi J. | Dr. K.R.Parmar |
| 19 | Functional Verification Of HDMI eVC & Implementation of HDCP Protocol Using HDMI eVC | Agravat Niranjan R. | Prof. J.V.Dave |
| 20 | Building SOC Verification Environment Using IPS, Languages & Methodologies | Shah Jalpa P. | Prof. C.R.Parekh |

Environment Engineering Department :

| Sr.No. | Title | Student | Guide |
|--------|--|--------------|------------------------------|
| 1 | Indoor Air Quality | Dulari Mehta | Prof. Dr. N. S. Varandani |
| 2 | Techno Legal Manual For Industries | Gopal Shah | Prof. Dr. N. S. Varandani |
| 3 | Environmental Consideration For Residential Buildings Leading to Sustainability | Shital Surti | Prof. Dr. N. S. Varandani |
| 4 | The Environmental Consequences of Bus Rapid Transportation System | Ankita Patel | Ms.M.J.Pandya |
| 5 | Determination Of Carbon Footprint for Coal Based Thermal Power Plant-A Case Study | Labdhi Sheth | Prof. Dr. N. S. Varandani |

Mechanical Engineering Department :

| Sr.No. | Title | Student | Guide |
|--------|--|------------------|-----------------------|
| 1 | Experimental and practically achieved performance of dual characteristics fuel engine (petrol start diesel run) | Parekh Hemang J. | Prof. K.P.Trivedi |
| 2 | Fluid flow analysis through inlet manifold in single cylinder spark ignition engine using fluent | Patel Nimit M | Prof. K.P.Trivedi |
| 3 | Design of system to Recover Refrigeration Effect during LNG Regassification Process | Patel Gaurng P. | Prof. (Mrs.) B.V.Dave |

Applied Mechanics Department :

| Sr.No. | Title | Student | Guide |
|--------|--|-----------------------|---------------------|
| 1 | The study of progressive collapse of the building frames subjected to blast loading | Rutvik Dave | Prof. C. S. Sanghvi |
| 2 | Analysis and Design of Equipments Supporting Structure | Chintan Patel | Shri M. H. Aghara |
| 3 | Automated Analysis Design and Parametric Study of Composite Column | A.L.S.V. Suryanarayan | Dr.R. K. Gajjar |

Civil Engineering Department :

| Sr.No. | Title | Student | Guide |
|--------|--|------------------|-------------------|
| 1 | Locating water harvesting structure by morphometric analysis & SYI model in context of flood reduction in varekhadi watershed, LTB Surat | Vanshri R. Ghoda | Prof.S.A.Trivedi |
| 2 | Reservoir Sedimentation and its Hydrological Impacts: A case Study of Khodiar Reservoir | Sagar D. Kande | Dr.P.P.Lodha |
| 3 | Micro Canal Network Planning case study of Memna Minor of Rajpura Branch Canal, Patan | Nitin Suneja | Prof. N. N. Borad |
| 4 | Disaggregated Discrete Mode Choice Modelling Using Artificial Neural Net work. | Pinak S Ramanuj | Dr.P.J.Gundaliya |