



# टेक विड्य

## 2012



**COLLEGE OF TECHNOLOGY & ENGINEERING**  
Maharana Pratap University of Agriculture & Technology, Udaipur (Raj.)

# मातृभूमि का रखवाला



वह मातृभूमि का रखवाला, आन बान पर भिटने वाला  
स्वतंत्रता की वेदी पर, जिसने सब कुछ था दे डाला।



स्वाभिमान का अटल हिमाला, कष्टों से कब डिगने वाला  
जो शोच लिया कर दिखलाया, ऐसा प्रताप हिम्मत वाला।



थे कई प्रलोभन, झुका नहीं, आंधी तूफान में रुका नहीं  
आजादी का ऐसा सूरज, उजियारा जिसका चुका नहीं।



वह नीले घोड़े का सवार, वह हल्दीघाटी का जुझार  
वह इतिहासों का अमर पृष्ठ, मेवाड़ शौर्य का वह अंगार।



घरती जागी, आकाश जगा, वह जागा तो मेवाड़ जगा  
वह गरजा, गरजी दसों दिशा, था पवन रह गया ठगा-ठगा।

हर मन पर उसका था शासन, पत्थर-पत्थर था सिंहासन  
न्हलौं से नाता तोड़ लिया, थी सारी वसुधा राजभवन।



वह जन-जन का उच्चावक था, वह सबका भाव्य विधायक था  
सेना थी उसके जार नहीं, फिर भी वह सेनानायक था।



जंगल-जंगल में वह घूमा, कांटों को बढ़-बढ़ कर चूमा  
जितनी विपदाएं प्रखर हुईं, उतना ही ज्यादा वह झूना।



सब विपक्ष में थे उसके, बस, सत्य पक्ष में था उसके  
समझौता उसने नहीं किया, जाने क्या मन में था उसके



वह सत्यपथी, वह सत्यकृती, वह तेजपुंज, वह महाधृती  
वह शौर्यपुंज, भू की धाती, वह महामानव, वह महाधृती।

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Art by Himmat Singh Chauhan

Himmat Singh Chauhan  
B.E. Final Year Electrical



# Editorial Board

Dean & Patron  
**Dr. NS Rathore**



Chief Editor  
**Dr. RC Verma**



Managing Editor  
**Dr. AK Chittora**



Editor  
**Dr. Govind Singh**



## STUDENT EDITORS

- » SUMER SINGH RAJAWAT
- » SHALIN SHARMA
- » GAURAV NAGORI
- » PUNEET SAHALOT
- » VISHAL ACHARYA

The Views Expressed in the Magazine are those of the authors and don't necessarily represent the views of Editorial Board

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*Maharana Pratap University  
of Agriculture & Technology, Udaipur*

## Message

It is a great pleasure for me to know that one of the esteemed colleges of our University "College of Technology and Engineering, Udaipur" is bringing out its magazine "TECHVIEW 2012". This college which started with the merely Agricultural Engineering education to serve the nation for more than 45 years has now grown with seven more disciplines covering almost every field of engineering. This magazine "TECHVIEW 2012" provides a platform to the students and faculty to freely express their creativity and ability in literary talents. It really symbolizes the joint efforts of faculty and students in their true spirit and harmony. It also includes descriptions of infrastructural facilities established in different departments of college for imparting excellence in education in recent past.

I compliment Dr NS Rathore, Dean, College of Technology and Engineering, Udaipur and all the members of editorial board who have put their best efforts in bringing out this magazine in a nice manner.

I wish publication of "TECHVIEW-2012" all success.

*S. S. Chahal*

**S S Chahal**  
Vice Chancellor



*College of Technology &  
Engineering, Udaipur*

## Message

I feel extremely happy to meet you through this College Magazine, TECHVIEW-2012. No doubt, publishing a magazine today is indeed a tedious and herculean task. But our college students, teaching and non-teaching staff have made excellent effort in bringing out this publication.

Dear Students, you have decided to come to this college (being one of the best engineering college in the state, and of national repute). Your decision on the right course or college may not have been so difficult, but when you are leaving the college, there will be a huge responsibility that you will be shouldering to serve the country. At every juncture you will realise that you will have to make a choice. There might be many choices, but the onus is on you, to make the right choice, to choose what is good for you in life. I wish all the outgoing students success in their carrier.

The Editorial Board has done its responsibility neatly and systematically, besides of course, editing the entire annual magazine. I congratulate the members of the Editorial Board Dr RC Verma, Dr AK Chittora and Dr Govind Singh Bhardwaj besides the student members for their tireless efforts. I also send my warm congratulations to all our budding talents who have generously contributed to this annual magazine. I also wish to express my gratefulness to the Hon'ble Vice Chancellor Prof. SS Chahal whose motivation has led to bring out this magazine.

**Dr NS Rathore**  
DEAN



*College of Technology &  
Engineering, Udaipur*



## Message

TECHVIEW 2012 is the continuation of series of college magazine. Publishing a magazine seemed like a piece of cake but eventually we realized that mission "TECHVIEW 2012" was like bringing down the moon on earth. Reason being the expectations attached with us were pretty enormous. Collection of articles was another hectic task. Then our Patron took *Suo Moto* action and it relieved our burden. The much-awaited College Magazine TECHVIEW 2012 is now in your hands. Our budding talents have expressed their thoughts, ideas, hopes, feelings, aspirations and convictions in a creative way. On the whole the Magazine mirrors the true credentials of our CTAEians. As you scan through the pages, it will enlighten you with the important milestones that CTAE has achieved this year.

I would like to thank our Patron, Dr NS Rathore for his back up and support to us.

'Thank you very much Sir for your valuable time which you spared for us.'

Alone I could do nothing but I was blessed that I had a cabinet of those friends who were always with me in every hardship. To start with, I will always remember the magnificent and outstanding support of Dr Govind Singh Bhardwaj and Dr AK Chittora especially when I was alone and under work pressure. Support of my student editors was commendable for their cooperation and putting in their best in bringing out this issue of our college Magazine.

In the end I want to apologize to all those whom I forgot to mention and also those who will be hurt from my annotations about them. "TECHVIEW 2012" is our humanly effort and it's worth reading. Try this out!

**Dr. RC Verma**  
Chief Editor



The College of Technology and Engineering was established in 1964 by offering undergraduate course in Agricultural Engineering. It had its beginning in the Rajasthan College of Agriculture and shifted to its present premises on new campus of the University in 1968. Academic and physical facilities of Udaipur Polytechnic was also transferred by state government to the College in 1975-76. However, considering industrial growth and human resource development in the state, additional degree programmes in Electrical, Mechanical and Mining Engineering in 1996, Computer Science and Engineering in 2000, Electronics and Communication Engineering in 2006, Information Technology and Civil Engineering in 2007 were added. All degree programmes have approval from AICTE. The admissions to the degree programmes are made through State level Pre Engineering Test (RPETEAP) and All India Engineering Entrance Examination (AIEEE). Fifteen per cent seats in Agricultural Engineering are also filled up through ICAR.

The college also offers post graduate programme leading to M.E. (Ag) & Ph.D. in Soil & Water Conservation Engineering, Irrigation Water Management Engineering, Farm Machinery & Power Engineering, Processing & Food Engineering and Renewable Energy Sources Engineering. The post graduate programme in Agricultural Engineering was started in 1978-79. The Ph.D. programmes in all specialization areas of Agricultural Engineering were started in 1996-97. The college also offers job oriented post graduate diploma programme in Organic Agriculture Management. Post graduate programmes leading to M. E. (Mechanical) in CAD/CAM, and M. E. (Electrical) in Power Systems and Control Engineering and power electronics, M. E. (Mining) in Mine Planning, M. E. (Computer) in Computer Engineering, MBA (Engineering and Technology) have also been added from this session.

The college is located at a distance of about 7 km from Udaipur City railway station and bus terminal and about 2 km from Rana Pratap Nagar railway station. It is accessible by a bypass road branching near Pratapnagar from the National Highway No. 76 leading to Chittorgarh.





## Editorial Board



**Dr. N.S. Rathore**  
Patron & Dean



**Dr. R.C. Verma**  
Editor in Chief



**Dr. A.K. Chittora**  
Managing Editor



**Dr. Govind Singh**  
Editor

## Student Editors



**Sumer Singh Rajawat**



**Gaurav Nagori**



**Shalin Sharma**



**Puneet Sahalot**



**Vishal Acharya**



*Educated Person of Yesterday, If Stop Learning Today  
Becomes uneducated Tomorrow .... Dean*

## Office Bearers of the Faculty



**Dr. G.P. Sharma**  
Cordinator-UG Studies



**Dr. Y.C. Bhatt**  
Cordinator-PG Studies



**Dr. Deepak Sharma**  
Admn. Officer



**Dr. M.A. Saloda**  
ADSW



**Dr. P.K. Singh**  
Chief Warden



**Dr. Hemant Mittal**  
CLSU Advisor



**Dr. Anupam Bhatnagar**  
Chairman  
Placement Bureau



**Er. Vinod Yadav**  
Chairman  
Games Council



**Lt. P.S. Rao**  
NCC Officer



**Er. J.K. Maherchandani**  
NSS Officer Unit - 1



**Dr. Sudhir Jain**  
NSS Officer Unit - 2

*If you are with good company, you are "Complete".  
If you are with bad company your are "Finished"*



## **Central Student Union 2011-12 (Candidates from CTAE)**



**Praveen Kumar**  
President - CSU (MPUAT)



**Avni Chandaliya**  
General Secretary - CSU (MPUAT)



## **College Level Student Union 2011-12**



**Mayank Kumar**  
General Secretary



**Sumer Singh Rajawat**  
President



**Harshit Bhardwaj**  
Joint Secretary

*"You can simply survive if change after change.  
You can succeed if change with change.  
You can lead, if responsible for change."*

## Extra Curricular Activities 2011-12



**Sanjay Singh Jeena**  
Captain College  
Basketball Team



**Arbandra Kumar**  
Captain College  
Athletic Team



**Gaurav Nagori**  
Captain College  
Volleyball Team



**Nagendra Singh**  
Captain College  
Hockey Team



**Manendra Sohu**  
Captain College  
Cricket Team



**Jitendra Yadav**  
Captain College  
Football Team



**Jaydeep Ameta**  
Best NSS Volunteer  
Unit I



**Tanuj Jain**  
Best NSS Volunteer  
Unit II



**Bhupendra Singh**  
Best NCC Cadet

*Learn more, work hard and Expect less are key parameters for success .... Dean*



## Computer Science & Engineering Final Year Batch 2011-12



**1st Row sitting (L to R)** - Swati Mangal, Nimisha Chittora, Viniya Philip, Saloni Agarwal, Shradha Jain, Rajshree Godawat, Sidheshwari Chouhan, Deboli Tolla, Deepika Harkawat, Rashmi Godawat, Vatsal Deshmukh, Bhawna Jain, Bharti Jain, Pooja Sahu, Ruchi Sharma, Shaifali Bhargava.

**2nd Row sitting on Chair (L to R)** – Ms. Dolly Menderla, Neha Mehta, Lal Singh Khemsara, Kalpana Jain, Dr. Naveen Choudhary (Head), Dr. N. S. Rathore (Dean), Dr. Dharm Singh, S. L. Mathur, Jitendra Singh Chauhan, Vishal Jain, Amit Joshi

**3rd Row standing (L to R)** – Sh. Babu Lal, Ankita Garg, Lavleen Sharma, Sangeeta Konwal, Yogesh Dangri, Omibabu Kumar, Pratik Pushpendra, Rohan Badala, Ankit Kohari, Gauram Sharma, Krishan Kumar Arya, Anurag Sharma, Gajendra Singh Dhaked, Kunal Sharma, Ankita Damor, Malti Samani, Rubina Banu Patel, Drashti Dave, Vimla Dangri

**4th Row standing (L to R)** - Pawan Kumar, Kuldeep Yadav, Neeraj Agarwal, Vinod Kumar Prajapati, Raghendra Singh Chundawat, Piyush Kumar, Ajeet Kumar Gamebi, Rajeey Ranjan, Khushal Dave, Vimal Khandelwal, Brajraj Singh Rathore, Purushottam Saini, Vinay Sharma, Manendra Singh Arya.

# Electronics & Communication Engineering Final Year Batch 2011-12



**1st Row sitting(L-R)** - Ms. Swati Dhanekar, Arshin Bano, Vibhva Powal, Pournami Jajoria, Komal Agarwal, Sonia Dharanishilini, Lovina Murdia, Heena Joshi, Prynika Uthooke, Jyotsana Solanki, Chetali Humeed, Arni Chantalya

**2nd Chairs (L-R)** - Ms. Tripti Saini, Neeraj Choudhary, Dr Navneet Agrawal, Dr Sunil Joshi (Head), Dr. N.S. Rathore (Dean), P.C. Bapna, Naveen Kabra, Ms. Surith Gupta, Ms. Akanksha Rathore

**3rd Row standing(L-R)** - Sh. Ranjeeta Soni, Shalendra Sharma, Prince Arora, Chandra Prakash Jangid, Puneet Sehlot, Rajkumar Sarel, Ravikant Sharma, Chirag Jain, Lumba Ram, Vivek Kumar Singh, Shashi Ranjan, Sunil Kumar Pandey, Abhijit Rao, Lalit Verma, Shubham Sharma

**4th Row standing(L-R)** - Sh. Prashant Bamaniya, Shankar Lal Suthar, Shri Ram Vishnoi, Bhuvnesh Jangid, Vishal Acharya, Pramod Kumar Surana, Md. Naeem Mansoori, Ravindra Gurjar, Arun Paliwal, Gaurav Sharma, Mitesh

**5th Row Standing(L-R)** - Sh. Akshay Gupta, Sumeet Pareek, Shushant Koul, Alok Kothari, Raghuveer Singh Charan, Manendra Singh Sohu, Jagdish Jagriwal



## Information Technology Final Year Batch 2011-12



**1st Row Sitting (L-R):-** Jyoti Sami, Jyoti Kumawat, Tristita Jangid, Carina Dangl, Meelha Arora, Shikuntala Sharma, Priyanka Bhatnagar, Princy Jain, Sangita Pandit, Pooja Sharma, Ilimani Dharti.

**2nd Row Sitting (L-R):-** Ms. Neha Mehta, Dolly Mendirela, LaL Singh Khamesra, Kalpana Jain, Dr. Naveen Choudhary (Head), Dr.NS Rathore (Dean), Dr. Dharm Singh, Shanti Lal Mathur, Ms. Drashti Dave, Ms. Rubina Banu Patel, Ms. Vimia Dangl

**3rd Row Standing (L-R):-** Sh. Jitendra Singh Chauhan, Sangita Korwal, Lavleen Sharma, Dishu Kordia, Nitika Veerwal, Riddhi Chaptot, Ruchika Jain, Savita Rao, Sabiya Tabassum, Ruchi Heerat, Ruchi Kumari, Vishal Jain, Amit Joshi

**4th Row Standing (L-R):-** Sh. Bhojraj singh Rao, Nimesh Lakhotia, Prateek Shrivastava, Zunnoor Mehmood, Mahaveer Prasad Meena, Sanjay Singh Jeena, Mohit Kumar Mehta, Vijay Singh Choudhary, Jitendra Yadav, Bhagwati Lal Janwa, Krishan Gopal Yadav, Ram Sagar Dubey.

**5th Row Standing (L-R):-** Sh. Shashank Kanaujia, Satyendra Singh Ranawat, Padam Singh Inda, Ashok Meena, Shokeen Khan, Narayan Ram Patali, Mayank Patodia, Anish Sheikh, Hemant Kumar Meena, Punit Chittora, Ajay Sharma, Umesh Khatri, Ankit Kohari, Yudhishir Nahar, Rajesh Kumar Jain.

**6th Row:-Standing (L-R):-** Navcon Chauhan, Himanshu Agarwal, Pankaj Meghwal, Surendra Choudhary, Ronak Mehta, Kapil Mangal, Kalpesh Purohit, Ravi Kesari, Deepak Kumar, Rishi Deepak, Ankit Mehta, Ramawalar Sharma, Rahul Chaubisa, Ashish Kumar Srivastava, Sashant Jain.

## Mining Engineering Final Year Batch 2011-12



**On Chairs (L to R):-** Sh. M.L. Menaria, L.D.C. Dr. Manoj Khanciwaj, Asstt. Professor, Dr. S.C. Jain, Asstt. Professor, Dr. Bhatnagar, Head Dr. N.S. Rathore, Dean, Dr. S.S. Rathore, Assoc. Professor, Dr. G.S. Bhardwaj Asstt. Professor, Er. V.K. Mehta, Tech. Assistant, Sh. Arif Mohammed Sheikh, Class Topper  
**First Row (L to R) :-** Sh. Priyatham Singh, Sh. Rahul Prajapat, Sh. Ashish Kumar Rana, Sh. Arpit Saxena, Sh. Basant Kumar, Sh. Jitendra Singh Sankhla, Sh. Vipin Tamboli, Sh. Khelan Prakash, Sh. Gajendra Singh, Sh. Ankur Mandawat, Sh. Hitesh Sharma, Sh. Rakesh Sheshama.  
**Second Row (L to R) :-** Sh. Rupak Kumar, Sh. Nikhilesh Rodtwal, Sh. Dinesh Deshmukh, Sh. Manish Kataria, Sh. Mukesh kumar Parthar, Sh. Praveen Dangi, Sh. Rohit Rawal, Sh. Smanendra Singh Chouhan.  
**Last Row (L to R) :-** Sh. Hemant Panwar, Sh. Haak Ram, Sh. Jai Prakesh, Sh. Ankit Purohit, Sh. Ama Parvez, Sh. Amarianshu Srivastava  
**Absent :-** Sh. Mohammed Ismile, Sh. Rakesh Rulantiya.



## Electrical Engineering Final Year Batch 2011-12



**1st Line (L to R)** - Ms. Juhu Ajmera, Ritu Suthar, Renu, Deepika Meghwal, Monika Singh Gehlot, Richa Garg, Prachi Kapoor, Surbhi Jain, Khushboo Lata Salvi.  
**2nd Line (L to R)** - Ms. Devika Solanki, Palak Kumar Jain, J.K. Meharchandani, Dr. K.R. Joshi (Head), Dr. N.S. Rathore (Dean), Vinod Kumar Yadav, Vahid Hussain, Prashant Meena, Neha Sharma.  
**3rd Line (L to R)** - Sh. Gangadhar Sonikara, Ashish Laddha, Saurabh Jain, Abhishek Dave, Ashutosh Jain, Narendra Kumar Jangid, Mohan Gorana, Chatar Singh Charan, Rahul Gupta, Sonit Kumar Garg, Kapil Kumar Bijarnia, Rashmi Sharma  
**4th Line (L to R)** - Sh. Gaurav Somani, Mayur Goyal, Surendra Singh, Mohini Mathur, Sunder Kumar, Amrit Jangid, Ompraj Gangwar, Himmat Singh Chouhan, Dina Nath Yogi.  
**5th Line (L to R)** - Sh. Uttam Kumar Mandvzani, Umesh Agarwal, Hritik Gautam, Palak Kumar Sharma, Abhishek Kumar, Shubham Gupta, Rajesh Kumar Meena, Siurabh Kanthaliya, Sumit Shrama, Raushan Kumar, Sourabh Sharma.

## Civil Engineering Final Year Batch 2011-12



**1st Row Sitting (L-R)** - Ms. Rupel Sankhita, Khushboo Chawla, Menka Yadav, Aparajita Sharma, Lorna Rathore, Khusbu Joshi, Priya Kannan Iyer, Sonam Lal  
**2nd Row (on chairs) (L-R)** - Ms. Chetna Rajput, Murlja Ali, R.S.Shekawat, Dr. B.S.M. Singhvi, Dr. N.S. Rathore, Dr. Ravi Kumar Sharma, R.P. Arora, Rajesh Gupta, Ms. Nisha Kumawat  
**3rd Row standing (L-R)** - Ms. Varsha Sharma, Rajratap Singh Ranawat, Sonu Kumar Hada, Neeraj Sharma, Manoj Kumar, Sandeep Singh Bhati, Nagendra Singh Dhakad, Arvind Khandelwal, Divyank Tyagi, Pawan Kumar Awasthi  
**4th Row standing (L-R)** - Sh. Rajat Chandra, Manoj Kushwah, Gurjinder Devgan, Arpit Watts, Kuldeep Singh Solanki, Harshveer Singh Rathore, Deepak Sharma Jangid, Ashwin Sharma, Arbandra Kumar, Kuldeep Sharma, Yogendra Kumar Mahawar  
**5th Row standing (L-R)** - Sh. Jagdish Palidar, Ashish Fagania, Ashutosh Maheshwari, Jai Prakash Yadav, Rekhraj Dhakad, Nakul Verma, Riyazat Ali, Mohit Goyal, Gopi Kishan Awasthi, Vikas Sharma, Pradeep Bohra



## Mechanical Engineering Final Year Batch 2011-12



**1st Row sitting (L-R)** - Sh. Yugal Kishore Sindhal, M.S. Khidiya, S. Jindal, Dr. Narendra S. Rathore (Dean), Dr. B.P. Nandwana (Head), M. A. Saloda, B.L. Salvi, Hoshang Kalla.

**2nd Row (L-R)** - Sh. Sameer Joshi, Vipin Kumar Jaiman, Dinkar Narayan, Raghunath Lal Verma, Ms. Sonam Prakash, Mukesh, Manisha Nimawat, Jyotsna Joshi, Mittal Koithan, Gourav Nagon, Abhishek Singh, Pushkar Singh.

**3rd Row (L-R)** - Sh. Jitendra Singh Chouhan, Durgesh Kumar Dhakar, Goutam Panchal, Saurabh Kumar Jain, Bhupendra Kumar, Sumar Singh Rajawat, Ankit Talesra, Prerit Neema, Ashish Anchliya, Jitendra Verma, Hitesh Suthar

**4th Row (L-R)** - Sh. Garvit Acharya, Rajpal Singh Rathore, Sharma Shaleen Umesh, Hitesh Paneri, Vibhor Gupta, Ketul Sharma, Rajat Kumar Bansal, Pawan Nagda, Dinesh Singh Shokhawat

## Agricultural Engineering Final Year Batch 2011-12



**1st Row Sitting (L-R)** - Dr. Ajay Sharma, Dr. H.K.Mittal, Dr. Surendra Kothari, Dr. N.S.Rathore (DEAN), Dr. G.S.Tiwari, Dr. Deepak Sharma, Dr. A.K.Mehta, S.S.Meena  
**2nd Row Sitting (L-R)** - Bhanupriya Meena, Preeli Sumán Mallu, Priyanka Chandaliya, Jayati Shrinimali, Neelu Pallival, Prachi Gothwal, Khyati Vyas, Hemlata Nagar, Arjita Saxena  
**3rd Row Sitting (L-R)** - Devendra Sen, Rahul Meena, Manish Jangid, Laxman Singh, Vikas Sharma, Ashish Agrewal, Ravindra Singh Punia, Vinod Kumar, Phulla Ram  
**4th Row Sitting (L-R)** - Harish Sharma, Himanshu Sharma, Manmohan Das Vairagi, Kuldeep Singh Meena, Suresh Saini, Krishna Kumar Mahawar



## Final Year Batch 2011-12 Masters in Computer Science & Engineering



(L to R):- Sh. Abhilaasha Sharma, Ms. Neha Menta, Kaipena Jain, Dr. Navena Choudhary (Head),  
Dr. N. S. Rathora (Dean), Dr. Dharm Singh, Shilpa Parney, Surbhi Jain, S. L. Mathur

## Masters in Electrical Engineering



1st Line (L to R) - Sh. J.K. Maharchandani, Dr. R.R. Joshi (Head), Dr. N.S. Rathore (Dean), Vinod Kumar Yadav  
2nd Line (L to R) - Sh. Ankit Chapiot, Usha Ahuja, Himani Paliwal, Jitendra Kasera, Jitendra Singh Jhala.

## Masters in Agricultural Engineering



**1st Row Sitting (L-R)** - Dr. SM Mathur, Dr. AK Mehta, Dr. YC Bhatti, Dr. SR Bhakar, Dr. RC Purohit, Dr. NS Rathore, Dr. RC Tiwari, Dr. Surendra Kolhari, Dr. VD Muggal, Dr. Deepek Sharma, Dr. Ajay Sharma.  
**2nd Row Sitting (L-R)** - Shanka Koley, Amit Pisal, Shanta Salvi, Jemimah ML, Arpita Mehta, Praticha Katara, Upma Sharma, Ragini Dashora, Yogita Dashora, Leena Tyagi, Kumud Gupta, Vikas Goujari, Shrikant Pathgi.  
**3rd Row Sitting (L-R)** - Pravin Jachway, Anil Waghmode, Sharad Nirmal, Pradip Narsale, Prashant Kacurkar, Shashikant Pawar,  
**4th Row Sitting (L-R)** - Kapil Samer, Pravin Dashipale, Kushal Dhake, Pravin Jawake, Chandrabhan Singh, Santosh Gagare, Jayant Ghatge, Arun Bhagal, Brendra Kumar Mahata.



## DEPARTMENT OF BASIC SCIENCE

The Department of Basic science is one of the supporting departments for under graduates & post graduate classes in engineering & technology. The Department offers various courses in areas of Physics, Chemistry, Mathematics and English at undergraduate level. This department also offers various courses in Mathematics at Post Graduate and Ph. D. level. To build a strong foundation about the principles and phenomenon of Physics, Chemistry, Mathematics and the skills to hone communication at under graduate level to the Engineering students and Management graduates by using theoretical and experimental tools is main objective of the department.

The department has been running successfully in the Civil Engineering block since its inception, and recently relocated to the first year Instructional Block, which was inaugurated on January 24, 2012. The first year Instructional Block is a niche area of the college & it has its own identity in the country as no other college has separate block for imparting first year education. It is distinct by its round structure, sound aeration, luminosity and esthetic beauty. The block exhaustively caters to the need of the first year student's classes at theory & practical level. The block comprises of four lecture halls with the facilities of teaching via LCD projectors and other items. The tier system of the lecture hall, providing equal access and eye contact, makes the teaching and the learning process a delight. The block also consists of essential units of Basic Science namely- Physics, Chemistry, Mathematics and English, along with the rooms for the faculty. It is supported with spacious and well equipped laboratories. Basic amenities like washroom areas, water coolers, notice boards etc. are also provided to the students. The block is exemplary helps the students to get with other comrades, thereby, making the symbiosis fruitful.

*Incharge*





## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

The Department of Electronics and communication is imparting under graduate education leading to B. Tech in ECE. A post graduate programme leading to 'M.Tech.' degree in the Department with specialization in Communication Engineering was introduced from the session 2011-12.

A Seminar Hall having a seating capacity of about one hundred students is also completed in the department of Electronics & communication Engineering in recent past. This high tech Seminar hall of the department with latest audio visual features may serve as a central common facility for the institution as well as for the department, to facilitate smooth conduct of various academic events of the students like Conferences, Seminars/Symposia, Workshop, etc.

A two days workshop on 'Embedded System Development & Robotics' was organized on 28-29 February 2012 in association with Advance Technology, Chandigarh for education students in this emerging field. In this workshop more than 80 students of B. Tech. and M. Tech. of different engineering disciplines of the college have participated.

A freshers' party was organized by II Year B. Tech. students of the department on 21st February 2012 and the function was presided over by Dr. N.S. Rathore, Dean of college.

In this year the students of the department have shown excellent performance in campus placements. So far, total 25 students of Final Year batch (2011-12) have been placed through campus placement in various companies like TCS (14), Phoenix Maritime (07), Syntel (02), Wipro (01), and Ambuja Cement (01).

Mr. Promod Surana student of Final year B.E.(ECE) has secured 99.96 Percentile in Gate-2012 with 61 All India Rank. Mr. Anup Kumar Karda a student of M. Tech. (ECE) has visited abroad to present a research paper in an International Conference held on 10-12 March 2012 in Sylhet, Bangladesh.



The Department is dedicated for establishment of labs for imparting present state of art technology to the students in the field of Embedded System Design & Development, Serscr Networks, Robotics, artificial intelligence, Image Processing Techniques, etc.

*HEAD*

**NOTHING IS IMPOSSIBLE**

**When a man tries  
or  
When women cries...**



## DEPARTMENT OF SOIL AND WATER ENGINEERING

The Department of Soil and Water Engineering of College was established in 1964. The department is imparting teaching at under graduate level leading to degree of BE (Ag.). The department has started master program in Soil and Water Conservation Engineering in 1978 and Irrigation Water Management Engineering in 1986. Leading to degree of ME (Ag.), the Ph.D program in Soil and Water Conservation Engineering and Irrigation Water Management Engineering was started in 1996. The department has so far produced 99 ME/Ph. Students. The department has well qualified staff. They have sufficient teaching and research experience. The adequate supporting staff is also available with the department.

### Laboratories

1. Soil and Water Conservation Engineering Laboratory
2. Agro Meteorological Observatory
3. Irrigation and Water Management Demonstration Laboratory
4. Drainage Laboratory
5. Ground Water Pumping Laboratory
6. Soil Conservation Demonstration Farm
7. Remote Sensing & GIS Laboratory
8. Ground Water Pumping Laboratory
9. Internet laboratory for the Agricultural Engineering students



Ground Water Pumping Laboratory has capability to test pumps of all capacity and discharge ranges, so as to cater to the needs of farmers for deciding appropriate pump rating for their irrigation pumping requirements. The performance studies of pumps can also carried out to detect malfunctioning of appropriateness of installed pumps in terms of discharge and working heads at farmers field. GIS laboratory imparts experiential learning to students.

### Publications

No. of Books Published (20), Total No. of Lab Manuals Published (105), No. of research papers Published (National) (189), No. of research papers Published (National) - last 3 years (58), No. of research Papers Published (International) (30) and No. of research Papers Published (International) - last 3 years (5).

### Major Research Projects

1. All India Coordinated Research Project on Application of Plastics in Agriculture
2. All India Coordinate Research Project on Ground Water Utilization through Wells and Pumps

### Other Research projects

1. Monitoring & Evaluation Studies of Rashtriya Sam Vikas Yojana, Dungarpur
2. Conjunctive use of surface and Ground Water Resources in Right Main Canal Command of Som-Kagdar Irrigation Project
3. Salt & water movement in evaporation pond and surrounding area at Nagaur
4. Study of Surface Water Resources of Wakel River Basin of Udaipur District
5. Study of Surface Water Resources of Banas River Basin of Tonk District
6. A study of knowledge, role, attitude and vocational training needs of NWDPRAs women beneficiaries for effective involvement in various activities of watershed programme of Rajasmand Distt., Rajasthan
7. A study on constraints and training needs of beneficiaries for capacity building with reference to landless



- labourers, small and marginal farmers and artisans
8. A study on constraints in peoples participations in watershed programme
  9. A study on aspiration, attitude and opinion of government field functionaries and beneficiaries farmers about NWDPR in Rajasmand Distt., Rajasthan.
  10. Impact of training on consciousness of natural resource management and adoption of advanced technologies
  11. Stochastic modelling of agrometeorological phenomena for the farm water management planning
  12. Farmer's Participatory Action Research Project on Augmenting Ground Work Recharging
  13. Study of Irrigation Efficiencies to find out Proper bed size for irrigation in right main canal command of Nand Samand Irrigation Project
  14. Rainwater Harvesting and Artificial Recharge of Groundwater for Sustainable Water Resources Management in Southern Rajasthan, Khamnor
  15. Modernization of the Agriculture University Farms of CTAE @ Valabh Nagar
  16. Strengthening of Infrastructure of enhance production of quality seed and quality planting material

HEAD

## Department of Information Technology

The Department IT is fully committed to provide need based quality education to the budding Engineers so that they can not only contribute to the development and prosperity of the society and the nation but also build a leading and successful career in the domain. Presently the Department is offering B. Tech in Information Technology. The B. E in T program was started in the year 2007. From the year 2011-12 the nomenclature of the program was changed to B. Tech IT. The establishment of infrastructure for Department of IT is in progress. The ground floor of the department constitutes well furnished labs (2), class room and staff rooms. The civil work for the first floor of the department is also completed in the current year and the process to furnish and equip these rooms is under process.

The passing out students of the Department are placed in reputed organization such as TCS, Birla Soft, Syntel, AppPerfect and SAIDOO (Detailed list enclosed).

Presently the Department of IT is sharing faculty, academic and infrastructure resources with Department of Computer Science and Engineering. Moreover all the academic and research activities undertaken by the Department of CSE are in conjunction with the department of IT and therefore all the research, academic and faculty activities and achievements of Department of CSE also pertain to Department of IT.



HEAD

*"Thousand of yesterday has gone, million of tomorrow will come,  
but there is only one that is Today, which is present & gifted from God to you"  
Let us enjoy with present.*

... Dean



## DEPARTMENT OF FARM MACHINERY AND POWER ENGINEERING

Department of Farm Machinery and Power Engineering is the oldest department of the College. The department is situated at about 100 m distance from the main college building and is having its own building with lush green outfield and soothing ambience. The infrastructure is hospitable and well suited for proficient learning & working. The faculty members and scholars share a healthy relationship enabling efficient and stress-free learning. The Department is engaged in Teaching, Research and Extension Activities. Department offers under graduate, postgraduate and doctoral programmes and equipped with modern CAD/CAM laboratories and highly qualified faculty. Department is also actively engaged in research and have number of sponsored research projects. Furthermore, department has liaison with industries like ASPEE, Mumbai, Tractor Industries etc. and other organizations and depute M. Tech. and doctoral students for their project work. Department has a completely mechanized farm and students are trained to operate agricultural machinery on the farm under the supervision of the trained staff. Recently department has conducted number of research on bio-diesel and Ergonomics. Department has also been given the responsibility of running two novel programmes entitled Technopreneur Promotion Programme (TePP) and Technology Refinement and Marketing programme (TREMAPP) sponsored by the Department of Scientific and Industrial Research and Department of Science and Technology, New Delhi. Under the extension activities of the department field days are organized and demonstrations are conducted on the farmers' field. The department is also engaged in organizing number of training programmes sponsored by DST on EDP.



Animal Nutrition Laboratory

An Animal Nutrition laboratory has been setup in the department to estimate dry matter, crude protein, crude fiber, ether extract (fat), total ash contents in the feeds which will be useful for research and teaching programme of the college.



Farm Machinery Park

A Farm Machinery Park has been established in the department. In this park, all types of farm machines useful for different operations from tillage to threshing have been displayed for the benefits of the students, farmers and entrepreneurs.

*HEAD*

**Life Has No Ctrl+Z**



## DEPARTMENT OF RENEWABLE ENERGY SOURCES

A series of lectures were kept on Solar PV Technologies in the seminar held during February 13-14, 2012 in the Department of Renewable Energy Sources, College of Technology and Engineering, MPUAT, Udaipur. The seminar was organized by Dr. Surendra Kothari, Head, Department of Renewable Energy Sources, CTAE, Udaipur under the Chairmanship of Dr. N. S. Rathore, Dean, CTAE, Udaipur.

Dr. Saji Philip, Renewable Energy Specialist, Scottish and Southern Energy Contracting, Thatcham, Scotland, UK and Adjunct Professor in MPUAT, Udaipur and Dr. Malcolm Mos were the key speakers of the seminar.

Dr. Saji K. Philip took lectures on Renewable Energy Work in the UK, Status of Renewable Energy Technologies, Grid Connected Solar PV, GREENWAY: A Zero Carbon Housing Development, Domestic Solar PV Installation, 5 MWp Free Standing Solar PV System and Solar PV System Design. The various topics he covered were on Renewable Heat Incentive (RHI), Carbon Emissions Reduction Target (CERT), Carbon Reduction Commitment (CRC), Green deal, Renewable Obligation (ROC), Zero - Carbon Housing Development, etc.

Further, he discussed about the software's commercially being used in the Solar PV System Design. He taught how to work on PVsol Expert. Post graduate students of engineering college designed a 50 kWp Solar PV System for Rajasthan College of Agriculture and a 100 kWp Solar PV System for CTAE using PVsol Expert. The students were thereby exuberant about the new technology they got to learn and work.

Dr. Malcolm Mos spoke on the Solar taxi that was introduced by him, "World's first Solar taxi" at Gajner, Bikaner, Rajasthan. Later on, these were put up in Sydney, Australia and other countries.

The lectures were attended by about 60 students and faculty.

### Equipments Procured

- |   |               |
|---|---------------|
| 1. Solar PhotoVoltaic Equipment Testing Kit | Rs. 1.20 Lakh |
| 2. Humidity Meter                           | Rs. 0.30 Lakh |

### Infrastructure facilities developed in the Department

1. Seminar Hall Renovation
2. Classroom renovation



*HEAD*

### EINSTEIN

If someone feels that they had never made a mistake in their life, then it means they had never tried a new thing in their life...

### WILLIAM SHAKESPEARE

Three sentences for getting **SUCCESS**:

- a) know more than other
- b) work more than other
- c) expect less than other



## Department of Civil Engineering

Department has started undergraduate course from 2007-08 and its first batch passed out in July 2011. Eligible students got placement in reputed organizations. Department has modified the B.Tech syllabus as per present need. New subject "Disaster Management" has been included as per the recommendation of National Disaster Management Authority (NDMA), Govt. of India.

Department has updated Concrete Lab, Computational Lab and Soil Lab by purchasing following equipments:

- Data Acquisition System for Strain Measurement
- Concrete Covermeter with Half Cell
- Software "Staad Pro" for structural Analysis & Design
- Cement Tensile Testing Machine
- Hydraulic Jack (50 kN) Capacity
- Accelerated Curing (for Boiling Water Method)
- Laboratory California Bearing Ratio Test Apparatus

Department is also in the process of development of Public Health Engineering Lab, Transportation Lab and Seminar Hall. Following equipment/articles have been purchased in last year:

- Turbidity Meter
- EC/TDS meter
- D.O. meter
- Digital Electronics Balance
- BOD Laboratory Incubator
- High Volume Sampler
- Seminar Room Chairs

*HEAD*

## WINNER OF STEEL WARS (ROBOWARS) 2011 & 2012 Team Thar Three Times Winner



Mr. Ashwini Jangid student of B.Tech 2nd year CSE represented our college 4 times in national level robowar competitions held at MNIT JAIPUR (PRIMAVEERA-2012), BITS PILANI & GOA CAMPUS (QUARK 2012), GYAN VIHAR University, Jaipur (AAYAM 2012) & GITS UDAIPUR (ANUSANDHAN-2011). Team THAR participated & got 1st rank in GITS udaipur, selected in top 5 in BITS Goa, 2nd position in MNIT Jaipur & 3rd in AAYAM. Team got best design award also.

Team members are :- Mr. Ashwini Jangid (leader) and Abhishek Pareek.

शिक्षण नै अनपढ़ वह व्यक्ति नहीं कहा जाएगा, जो लिख और पढ़ नहीं पाएगा।  
बल्कि अनपढ़ तो वह कहा जाएगा जो अपनी पढ़ाई का सही उपयोग नहीं कर पाएगा।  
ऐसा व्यक्ति समाज तो क्या स्वयं को भी नहीं बदल पाएगा।



## MASTER OF BUSINESS ADMINISTRATION (ENGINEERING)

The college started a 4 semester (2 Years) full-time management course this year, offering degree in MBA (Engineering). The course is specially designed for engineering graduates and science post-graduates with an



objective of developing business acumen & to make them techno-entrepreneurs. The course was launched by Dr. Janat Shah, Director, IIM, Udaipur on August 23, 2011. The course of management studies is operating in a separate dedicated building of the college situated in a serene environment and is fully equipped with all necessary infrastructural facilities including state-of-art classrooms, faculty rooms, computer lab, library, seminar hall, etc.

This course involves special emphasis on providing practical & industry-related knowledge to students through regular industry interactions. The course provides major specialisations in Operations and Production Management, Information Technology Management and Technology Management and minor specialisations in Finance, Marketing & Human Resource Management. Extension lectures from faculties of top B-schools of the country & IIMs, Special lectures from top industry professionals & management gurus, regular industrial visits, case studies, problem solving, brainstorming, presentations & discussions by students on contemporary issues, management games, industrial training & major research project are the major highlights of the teaching pedagogy.



A one-day workshop on the theme of "Emerging Paradigms in Management Education" was organised on February 4, 2012. The workshop was divided in two sessions. The dignitaries for the first session included Dr. Janat Shah, Director, IIMU as Chief Guest & Key Note Speaker; Mr. P. Joseph, Assistant Vice-President (HR), Hindustan Zinc Limited, Vedanta Group as Guest of Honour; Prof. S.S. Chahal, Vice-Chancellor, MPUAT as President, Dr. N.S. Rathore, Dean, CTAE and Dr. S. Jindal, Coordinator-MBA (Engineering) & Workshop Convener. The keynote speaker for the second session was Prof. Satish Sharma, Chairman, Maharaja Group of Colleges and the Special

Guests included Dr. Manoj Swaroop, Vice President (Commercial), Wolkem India Limited; Prof. B.P. Bhatnagar, Advent Institute of Management and Mr. K.S. Mogra, Advisor, UCCI. About 100 delegates from various management colleges of Udaipur participated in the workshop including Directors & Faculties from IIMU and various management colleges of Udaipur. Elaborate deliberations and discussions on the various issues pertaining to management education scenario were held at the workshop. On the occasion of the workshop, a summer-internship and placement brochure was also released.



Regular Industry visits are an important part of the curriculum for the first hand learning of practical working by the students. The students visited the Rajasthan Spinning & Weaving Mills (RSWM),



Banswara; Mahi Hydel Power Plant, Banswara and Udaipur Dairy (SARAS), Udaipur. Under Rural Immersion Programme, a CSR visit to Zawar area was organised with an NGO running under the aegis of Vedanta Group. A signature campaign on social issues relating to corruption, environmental pollution, road safety and female foeticide was organized for spreading awareness among the students of the college during college annual function "NEUROTECH 2012".



The students also attended Extension Lectures of eminent academician Prof. Prasanna Chandra and management workshop of well known management guru & Zen Philosopher and Consultant Mr. Himanshu Buch. A workshop on Competency Mapping was also organized

for the students.

During the session, number of cultural and extra-curricular activities were organized by the students. "Uttarayan" was celebrated on the occasion of Makar Sankranti with traditional fervour. The students also made a presentation on the scientific and religious aspects of celebrating the festival of "Makar Sankranti" across the country by various names and forms. The students organized management games of "Treasure Hunt", Quiz and played "Sitoliya".



"Vasantotsava" was organized on "Basant Panchami" where students celebrated the day with tree-plantation in the campus spreading environmental awareness, collage competition on the theme "SAVE EARTH" and essay writing competition on the topic "CSR in environmental perspectives". The chief guest of the function was Manak Arya, Station Director, All India Radio, Udaipur. Arya, in his address appreciated the programme and blessed the students for continuous progress in life. He also appreciated the

dedication of management students towards environment.

A weekly newsletter "KAIZEN" has been started by students with a team of two students acting as editors for a week on rotational basis. The newsletter includes international and national business news, article on a contemporary issue in management, contributions of a management guru, a management book review, news on latest technological innovations and details of weeks



Coordinator  
MBA

सिक्के हमेशा आवाज़ करते हैं, मगर नोट हमेशा खामोश रहते हैं,  
इसलिए, जब आपकी कीमत बढ़े तो शांत रहिए।  
अपनी हैसियत का शोर मचाने का जिम्मा आपसे कम किमत वालों के लिए है।



## DEPARTMENT OF MINING ENGINEERING



The Department of Mining Engineering was established in 1957 in Udaipur - the city of lakes, gardens, fountains and center of most of the non-coal mining activities of country to impart diploma in mining and mine surveying.

In 1996, the department was raised to degree level to cater the demand and need of the sector with an annual intake capacity of 20 students. The students with 10+2 as minimum qualification are admitted through RPET (State level admission test) and AIEEE (National level admission test). Efforts were made to include the dimensional stone technology in the curriculum that resulted in the fact that this is the only degree level college in mining engineering which imparts in dimensional stone technology as thrust area. It is the need of hour since approx 90% of the country's marble mining activities are in its vicinity only. It is needless to say that in conventional mining teaching also we have an edge, due to our locational.

The department has its own new building with all infrastructure facilities and modern well equipped laboratories i.e Mine computing laboratory, Rock mechanics & Dimensional Stone Laboratory, Environmental Laboratory, Geology Laboratory etc. Classrooms are well equipped with the modern teaching aids like OHP, LCD and Computers etc.

In the institute, approximately 3000 books related to Mining Engineering in College library and 225 books in departmental library are available. In addition to this 13 national and international Journals related to Mining Engineering are subscribed.

In a short duration, department has attained remarkable achievements in fields of teaching, research and extension. The faculty members had kept pace with the technological advancements to pass on the best of their part to the aspiring scholars. The





department has approved PG courses in two disciplines, Mine planning and Mine Environment, and Doctoral program. We have a unique way to imparting field based knowledge, in which guest faculties from renowned fields like DGMS, DMG, IBM, HZL, RSMML are invited time to time.

#### Facilities added

- ☞ In 2010-11 part of Ground Floor construction in progress to construct a the hall strengthen for AV presentation and two staff rooms (Total area is 280sqm costing Rs 10 lac.)
- ☞ Equipment and lab accessories purchased like Multipoint Bore hole extensometer, Bore hole stress meter with read out unit, Portable grinder, 60 Safety helmets for camps & visits, Laser Printer for Computer lab, Dell Vostro 1015 Notebook, LCD Projector for Computer lab, Point load index, Digital Schmidt Rebound Hammer, Chairs to increase computer lab seating capacity, Three Transit, Theodolite, Measuring Tape -06 for Survey Camp, 3 Computers for Computer lab, 20- Class room Table-Chairs (integrated Units) to increase seating capacity by 10 in each.

#### Students activities

- ☞ One week DATAMINE Mine Planning Software training by company professional during 6-11 June 2011 for Final year students
- ☞ Survey Camp for third year mining students in Dec. 2011
- ☞ Mining Camp for Second year mining students in Dec. 2011
- ☞ Technical Visits for II, III and Final students in Dec. 2011 & Jan. 2012.
- ☞ Training of students in Underground, opencast Metal and Coal
- ☞ Mr. Amal Pervez, attended and presented a paper in International Conference on Environmental Technology and construction Engineering for Sustainable Development at Sylhet, Bangladesh during 10-12 March 2012.
- ☞ Mr. Shantnu Panwar participated in Surang 2012 organized by Anna University during 22-23 March 2012.

HEAD

## MATURITY

*is not when*

*we start speaking BIG thing*

*It is when we start understanding small things...*



## Mechanical Engineering Department

The department of mechanical engineering was established in year 1957 offering diploma in mechanical engineering. Undergraduate program in the mechanical engineering was started in 1996 discontinuing the diploma program. Currently the department has an annual intake of 40 students through the state level admission test.

The department has undergone major renovation of its buildings in last couple of years. As a part of this drive, many infrastructural development works were accomplished in the session 2010-11. The middle wing of the department was renovated and the laboratories were shifted to their new locations. Similarly, the lecture theatre was also renovated and furnished.

The department has all the basic, and many advanced laboratories with modern equipment and machinery to enable it to remain in the forefront of technology. The following laboratories are there in the department:

Heat engines lab	Refrigeration and air-conditioning lab
Heat transfer lab	Instrumentation and control lab
Metrology lab	CAD lab
CAM lab	Dynamics lab
Fluid mechanics and machines lab	Industrial engineering lab

The labs are well equipped with modern and latest equipment like Dual channel FFT analyser of B&K make, tool room microscope, Air-conditioning tutor, refrigeration tutor, IC engine test rigs, heat transfer rigs, hydraulics turbines, etc. There is a well equipped workshop catering to the instructional needs of all the students of the college. The machine shop is particularly well equipped with turret lathe, capstan lathe, etc. along with a number of conventional machine tools.

The modern trend in the mechanical engineering is ever-growing use of computers in all fields: design, manufacturing, planning or inspection, etc. To keep in tune with this, the curriculum of Mechanical engineering lays adequate emphasis on computer skills while maintaining strong theoretical background. The CAD and CAM are most important areas in this respect.

The CAD lab has been enriched in last couple of years with addition of two new softwares: Solidworks and MasterCAM. The Solidworks is used for 3D modeling and the MasterCAM is useful for CNC part programming and simulation. The CAD lab also has software for finite analysis simulation and optimization of systems. These include ANSYS, Abaqus and Hyperworks. The students are exposed to these in their curriculum. Few students also undertake their project involving extensive use of these softwares. The Computer Aided Manufacturing (CAM) lab has a vertical Machining Centre (VMC) purchased from Batliboi with a cost of over Rs. 21 Lakhs. The machine is a fully production machine. This lab will help the students in understanding the CNC machining concepts well.

The placement scenario of the department in the last year was satisfactory. Almost all the eligible students were offered campus placement. Remaining students either opted for higher studies or found off-campus placement.

*HEAD*



## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



The Department of Computer Science & Engineering is fully committed to provide need based quality education to the budding Engineers so that they can not only contribute to the development and prosperity of the society and the nation, but also build a leading and successful career in this direction. Presently the Department is offering B. Tech with intake strength of 40 students and M. Tech with intake of 8 students in Computer Science and Engineering. The department has developed the state of art computation facility to facilitate students in maintaining the high standards in quality education. In current years the department has procured ARM 9 based Embedded System training kit to enable the students to explore the frontiers of embedded systems and mobile operating systems. In addition to the above each class of the department is equipped

with multimedia facility to enable effective teaching and learning. Moreover in the current year the Smart class room supporting interactive teaching learning facility was also established in the department to take the teaching and learning experience to the next level of teaching deliverables. The Department has also developed a fully computerized multi functional seminar hall with more than 50 computers and multimedia facility. The department is connected with National Knowledge Networks which facilitate the students of the department to share knowledge with eminent engineering institutes in the country. Moreover the College also provides IEEE explore connectivity to the student free of cost to facilitate the students to be aware of latest research activities in the field of computer engineering. To make the students aware about the latest development in the domain of computer engineering and Information Technology various workshop, conferences and seminars are organized by the department from time to time and various eminent experts of the field visit these programs and shared their expert knowledge (invited lectures/technical talks) of the latest technology in the domain. (List of workshop, seminars, conferences, invited lecturers conducted in last 2 years is enclosed). The Department in close liaison with eminent professional societies such as Institution of Engineers and Computer Society of India conducts international conference, seminar and workshop from time to time for greater interaction with experts of the domain and exchange of innovative ideas among young researchers. The department also has a CSI (Computer Society of India) student chapter. Moreover the process to establish a computer society of India (CSI) centre of excellence (COE) in the department was started in the current year and is presently under progress. The CSI COE will enable the department and its expertise to disseminate knowledge in the field of computer engineers to the professionals, faculty and students.

The faculty of the department has also won many laurels in form of honors, awards and appreciations from university and other professional societies for their outstanding work, academic and research achievements (details list of honors/awards/ appreciations received by department faculty in last 2 years is enclosed).

The passing out students of the Department are placed in reputed organization such as TCS, Birla Soft, Syntel, AppPerfect, SAIDOO, Infosys, Accenture, Cognizant Technology Solutions, IBM, L&T Infotech, Patni computers, Satyam, Secure Meters, Tech Mahindra, US Technologies etc. The list Placement record for last two years is enclosed. Moreover quite a few academically sound students choose to go for higher studies in eminent institution of the country such as IITs, IIMs, NITs, GIM, Goa, BITS Pilani, NMIMS, Mudra Institute of Communications Ahmedabad, etc.





## ELECTRICAL ENGINEERING DEPARTMENT

Various achievements of the department during the session 2011-12 are pinpointed as:

1. PhD and M. Tech. in Power Electronics have been started in the department with intake of three seats in PhD and eight seats in M. Tech. on self finance basis.
2. Also sought collaboration from Mahindra & Mahindra for hybrid electric vehicles is also in the offing.
3. Two PG laboratories, one PG class room, and cycle stand have been recently constructed.
4. Number of state of art equipments have been purchased for research and rudimentary knowledge in the field of the machine and power system.
5. Faculties from the department has participated and presented research papers in various conferences and seminars. Also one book on power electronics have been published by the faculty of the department.
6. Three research projects have been submitted from the department to the Ministry of New and Renewable Energy Sources, GOI, and Ministry of Science & Technology, DST New Delhi.
7. Students from the department got placed in companies like TCS, Phoenix Maritime Services PVT Ltd, Ultra Tech cement, Vikram cements, Aditya cement, TELCON, WIPRO BPO-Technology, HZL
8. First semester result in all the courses offered by the department during the session was excellent with most of the students securing more than 75% marks.
9. Department has won the trophy of Interdepartmental kabaddi tournaments held in the month of August, 2011



Intelligent Power Module  
With Hydraulic Loading



Micro Controller base Earth  
Fault Relay Trainer



Programmable Logic Controller  
for stepper motor control



Micro Controller based Material  
Handling System



DSP Based Three Phase Matrix  
Converter Fed Induction Motor  
Drive Along With Power quality  
Analyzer and DSO





## Games & Sports Activities

A brief report on various students activities held during session 2011-12 under the office of the physical education are as:

1. Inter- Department Tournaments of Basketball, Football, Kabaddi, Volleyball, Hockey, and Cricket were organized successfully during this academic session.
2. Open Tournaments for Tennis, Badminton, TT, Chess, wrestling were also organized successfully during this academic session.
3. Due to outstanding and excellent Performance of CTAE students during the intercollegiate tournaments, CTAE captured 12 trophies out of 17. Overall championship was also named for the our college.



*Officer Incharge, Games Council*



## NSS UNIT-I ACTIVITIES



The broad objectives of NSS are to understand the community, in which they work, understand themselves in relation to their community, identify the needs and problems of the community and involve them in problem solving process, develop among themselves a sense of social and civic responsibility, and utilize their knowledge in finding practical solution to individual and community problems, develop competence required for group living and sharing of responsibilities, gain skills in mobilizing community participation, acquire leadership qualities and democratic attitude; develop capacity to meet emergencies and natural disasters and practice national integration and social harmony.

To achieve the above said objective various regular and special activities were planned during the year. A few of them are given here:

1. **NSS Day:** NSS day was celebrated on 24th September. On this occasion a presentation was given to the newly registered volunteer on the objectives and aims of national service scheme. All of them have been given NSS diary, cap and badges. The function was chaired by the Dean of the college Dr Narendra S Rathore.
2. **Gandhi Week:** First week of October was celebrated as Gandhi Week. In this week various events were organized based on teachings of Gandhi.
3. **Communal Harmony Campaign & Fund Raising Week:** From 19th to 25th November was celebrated as communal harmony week. The Campaign was started on 19th November 2011. The poster containing theme of National Harmony was released on the very first day. A lecture was delivered to the volunteers explaining how to maintain communal harmony and national integration. Sticker flag were distributed among student to collect fund for the children rendered orphan or destitute during various communal disturbances.

In this week NSS unit-I raised the fund of Rs 2121/-



4. **Republic Day Celebration:** It was celebrated on 26th January. NSS Volunteer enthusiastically participated in the march past on the RCA ground
5. **Visit of Sajjan Niwas Garden:** A visit of Sajjan Niwas Garden was organized for the NSS volunteer so that can come close to nature and understand the important of clean and healthy environment. Also various group activities were planned there to develop interaction between volunteers.
6. **Skit on Water Conservation:** A skit was prepared by NSS volunteer to promote the message of water conservation under the guidance of Dr P. C. Jain. It was focused on the idea that our children grow into responsible adults who can make logical decisions that will result in a sustainable water supply for the future. If we practice water-saving habits now, we can make sure that we have enough clean, safe water for our future.
7. **Visit of Kumbhal Garh Fort:** A visit of Kumbhal Garh fort was held as a place of historical importance.
8. **Special Camp:** A seven day special camp on the theme "Environment including preservation of natural resources and conservation of cultural/historical heritage" was held from 14th to 20th February. Inaugural function was chaired by respected dean of the college Dr N. S. Rathore, chief guest and the special guest of the function was Dr S. R. Maloo, (Dean, RCA) and Dr Virendra Nepalia (SWO and NSS Coordinator, MPUAT) respectively.
9. **Competitive Events:** Various competitive events were held throughout the years.

The details are as follows:

S. No.	Events	Winners
1.	Debate Competition	I. Preet Shrmali II. Chru Surana III. Abhishek Kumar Yadav
2.	Adc Mace Competition	1. Ramvilas Jangir 2. Vikas Dave 3. Avdresh Rathore 4. Gaurav Yadav 5. Monika Kantwal
3.	Quiz Competition	<b>First Team</b> 1. Nistha Agarwal 2. Deepa Bijoriya 3. Seema Jakhar 4. Jyoti Chahar <b>Second Team</b> 1. Samagra Kashyap 2. Dev Narayan Shaktawat 3. Jitendra Rathore 4. Rajendra Rathore 5. Vikas Dave
4.	Debate Competition	I. Mayank Kumar Kediya II. Pranay Pathak III. Amit Kumar Sharma



10. **Prize Distribution Ceremony:** Prize distribution ceremony was held on 20th February. The chief guest of the function was Dr I. J. Mathur (Director Extension, MPUAT).
11. **Shramdaan:** During the year NSS volunteers participated in many shramdaan activities. Shramadaan programme was being conducted in the college premises. Through their active participation in Shramadaan volunteers contributed a lot to the improvement of greenery in the compound. This programme helps in promoting dignity of labour, sense of brotherhood and to understand the importance of greenery.

*Programme Officer*



## NSS Unit-II Activities

The NSS aims in developing the inner potentialities and transforming the students mentally to fit into the society to which he/she belongs. With the objectives of NSS, it is there to develop multidisciplinary personality of the student youth so as to gain skills in mobilising community participation, acquire leadership qualities and democratic attitudes, develop capacity to meet emergencies and natural disasters, etc. along with their academics.

The NSS Units of CTAE has been fulfilling the objectives of NSS by encouraging and supporting active participation of youth in the process of socially valuable and nation building activities and has also been important in development of personality of the youth.

**NSS volunteers of Unit-II, CTAE, over the year has contributed in-**

- Social service
- Van Mahotsav & Nature Awareness
- Biodiversity
- Blood Donation
- Health, Hygiene and Sanitation
- Eco-tracking & Visit to Historical places
- Visit to Village & "shramdaan"
- Energy Conservation
- Poster competition on Environment
- Republic day participation
- AID's Awareness
- Personality Development & Communication Skills
- Save Environment message by making dustbins and fun panel solar cookers
- Happy & Healthy Youth through Yoga Camp & Special Camp of 7-Days



Best NSS Volunteer Award in the Academic Session 2010-11 for the Block year 2009-11 was given to Mr. Akshay Gupta, III Yr. B.E. at college level annual function held in May 2011.

Dr. Sudhir Jain, Programme Officer, NSS was given appreciation award for the distinguished services & luminous contributions in the field of voluntary blood donation on World Donors Day- June '4, 2011. The award was given by the Department of Pathology, RNT Medical College, Udaipur in association with National AIDS Control Organisation, New Delhi (Ministry of Health & Family Welfare organization, Govt. of India) & Rajasthan State AIDS Control Society, Jaipur.

The NSS volunteers of the unit celebrated Van Mahotsav by way of replacing old dead plants with new saplings and had shramdaan in the college premises on 30th July 2011. On this occasion they took oath to plant more and more trees motivate people for plantation for keeping the environment clean and keep healthy ourselves and the society. District level Van Mahotsav was also celebrated on August 12, 2011 at Jangal Safari Park, Lake Pichhola (Kalka Mata Nursery) organised by the Forest Department (South), Udaipur. Chief guests in the programme were Shri Raghuvir Meena, MP, Udaipur; Mrs. Madhu Mehta, Zila Pramukh; Dr. N.C. Jain, CCF (Wildlife); Ms. Shailja Devel, CF and Sh. R.K. Jain, ACF. The students of the college were felicitated on the occasion who won the Wild life Quiz and Power Point Presentation competitions.

The one day Nature Conservation Workshop: Vision11-Action11, on August 11, 2011, was organised by the Department of forest in collaboration with Sukhadia University at the Sukhadia Auditorium. The workshop was preceded with a cycle rally from Mohta Park to University campus. The theme lecture on Conservation of Nature



was delivered by Dr. N.C. Jain, CCF (Wildlife). On the occasion Dr. I.V. Trivedi, Vice-Chancellor, Sukhadia University was also present. NSS volunteers numbering about 50 attended the workshop.

Akshya Urja Diwas was celebrated on 20th August to commemorate the birth day of Late Prime Minister Sh. Rajiv Gandhi. A visit of renewable energy gadgets was made. About 50 students participated in the programme.

A workshop on nature and environmental awareness was organised on August 27, 2011 was organised in the AVP Hall of the college. Dr. N.C. Jain was the key speaker who focussed light on the said topic. About 70 students of the college attended the workshop. Dr. R.C. Purohit, Ex-Dean of the college witnessed the programme.

The NSS Day was celebrated in the Department of Renewable Energy Sources on 24th September 2011 by the newly registered NSS volunteers. The volunteers were informed about the NSS programme and various activities to be performed during the course of 2 years of their attachment in the programme. On this occasion Dr. N.S. Rathore, Dean, College of Technology & Engineering & Programme Coordinator, NSS, Maharana Pratap University of Agriculture & Technology, Udaipur spoke on the NSS theme. A video on NSS was also shown to the students.

NSS Volunteer Ms. Riddhi Chplot, IV Yr. B.E. (IT), student of CTAE was a part of Indian Youth Delegation to CHINA during September 20-29, 2011. The contingent consisted of 500 youths covering whole of the country. During the programme Ms. Chplot visited Beijing, Shanghai, Gongzhao, Yong Jiao and many other parts of the China and got information on the Chinese traditions and culture. They also showed about the Indian traditions and culture to the Chinese people through various interactive programmes.

On the occasion of "Wildlife week" (1-7 October, 2011) selection trials for Nature Quiz and Nature Power Point Presentation were kept on 24th September, 2011. Three power point presentations entries were finalized for further submission to the main event.

The Wildlife Week Competitions organised by the Forest Department, Govt. of Rajasthan, Udaipur were held during Oct. 1-7, 2011. In these competitions students of NSS Unit-II, CTAE won prizes as per below-

**Nature Power Point Presentation**

1. Mr. Ishan Parikh- WON SECOND PRIZE  
Nature Power Point Presentation (Trekking)

1. Mr. Naman Jain & Nikhil Jain - WON SECOND PRIZE  
Nature Quiz- WON THIRD PRIZE- Consisting of-

**CORE TEAM**

- 1. Mr. Ishan Parikh
- 2. Mr. Anshul Mittal

**SUPPORT TEAM- Nine students**

**Nature Poem Writing (English)**

- 1. Ms. Jaya Bhancari- WON FIRST PRIZE
- 2. Mr. Pavan Purbia- WON THIRD PRIZE

**Nature Article Writing (English)**

- 1. Ms. Jaya Bhancari- WON FIRST PRIZE
- 2. Mr. Ishan Parikh- WON SECOND PRIZE
- 3. Mr. Preet Shrimali- WON THIRD PRIZE



NSS Volunteers of MPUAT participated in the Cycle Rally on October 1, 2011 which was organised by the Forest Department, Govt. of Rajasthan, Udaipur. Prof. S.S. Chahal, Hon'ble Vice-Chancellor flagged off the cycle rally



from Shastri Circle. The rally terminated at the Gandhi Ground Stadium. There a function on environment awareness was held in which school and college students in large number participated. Chief guests in the programme were Shri Ragnavi Singh Meena, MP, Udaipur; Mrs. Madhu Mehta, Zila Pramukh; Dr. N.C. Jain, CCF (Wildlife) talked on the environmental issues. Sh. Rahul Bhatnagar, ACF also spoke on biodiversity and wild life aspects.

During the function a SKIT on SAVE ENVIRONMENT was played by the NSS volunteers consisting of 7 boys and girls, namely Manish Kataria, Niramala Meena, Harsha Upadhyaya, Ishan Parikh, Naman Jain, Nikhil Jain and Anshul Mittal.

A Photography workshop was organised by the Forest Department, Govt. of Rajasthan, Udaipur on October 10, 2011 at Rotary Bajaj Bhavan, Rani Road. NSS Volunteers numbering around 10 attended the workshop and learned about the various photography tricks and techniques. In this programme awards were given to winners of wildlife week competitions.

The 10 days NSS West Zone Pre Republic Day Camp was organized at Arts and Commerce College, Vyara, Dist: Tapi, Gujarat from October 29 to November 07, 2011 in which 200 volunteers from Rajasthan, Maharashtra, Gujarat, Goa, Daman & Diu and Dadra & Nagar Haveli participated from which the final selection will be done for the Republic Day parade, 2012 at New Delhi. During the camp the participants were rigorously trained in parade and had number of cultural, as well as academic activities in which many eminent personalities were invited including Ministers, IAS, IPS, etc. The camp was organized by NSS Regional Centre, Ministry of Youth Affairs and Sports, Ahmedabad. Ms. Ridhi Chaplot, IV Yr. B.E. (IT) and Mr. Tanuj Jain, III Yr. B.E. (IT) both NSS volunteers of NSS Unit-II attended the Camp.

Dr. Sudhir Jain, Programme Officer, NSS attended one day symposium on Sensitization of Voluntary Blood Donation on 5.11.2011 the National Voluntary Blood Donation day. Two of the NSS volunteers namely Ms. Kinjal Shah (Elect.) and Ms. Gunjan Agarwal (IT), also attended the programme. The symposium was organised by the Department of Pathology, RNT Medical College, Udaipur in association with Rajasthan State AIDS Control Society, Jaipur and National AIDS Control Organisation, New Delhi.

On the occasion of birthday of Salim Ali, the legendary Father of Ornithology a bird watching and photography event was arranged at Jal Burj (Near Pichola Lake, move through Dudh Talai) by the forest department, Udaipur on November 12, 2011. The NSS volunteers attended the programme and learned that how to conserve nature through inspiring pleasurable activities of birds and welcome the migratory birds in this season. They also learnt about bird photography. Dr. Satish Sharma, Shailendra Tiwari, Sharad Agrawal and many others experts were there to inculcate love for birds and other natural phenomenon among nature enthusiasts.

"Communal Harmony Week" was celebrated during 19th to 25th November. The student volunteers celebrated the week with zeal and enthusiasm. Wide publicity was done through intensive campaigning by the students. The students were sensitized on the aspects of communal harmony by way of delivering lecture by the faculty. Further the volunteers observed the "Flag Day" on 25th November, 2011, by distributing flags amongst masses and collected funds by way of donation from people, for this noble cause.

*Programme Officer*



## NCC Unit - Activities

1. Independence Day celebration- The University level function was organized at Home Science College. CTAE NCC Unit has participated in this activity and escorted the chief guest. (2Photographs).
2. Conducted CATC Camp | w.e.f. 1.8.11 to 10.8.11 at Ekling-garn, where 20 cadets of the college have participated.
3. Conducted CATC Camp - | w.e.f. 1.11.11 to 10.11.11 at 12th RAC Bn. Debari, where where 20 cadets of the college have participated.
4. Lt. P.S.Rao, NCC Incharge CTAE, Participated in NIC (ALC)-camp, Bhuj (Gujarat) during 6.12.11 to 18.12.11. Lt. Rao was contingent Incharge of Rajasthan Directorate where 16 directorates of the country having more than 500 cadets has participated in this camp.
5. Republic Day Celebration - The University level function was organized at Rajasthan College of Agriculture, Udaipur. Two Army NCC Units and One Air NCC Unit has participated in this activity along with 5 NSS units and Two NCC Pilot of the college has escorted the chief guest.
6. Cadets Bahadur Singh has been selected in Special NIC camp to be held at Lakshdeep w.e.f.12.4.12 to 24.4.12. In this camp Cdt. Bahadur Singh is the only NCC Cadet of the '08th Raj. Bn. NCC and only 300 selected cadets of the country are participating in this camp
7. 24 Cadets were appear in "B" and 15 cadets were appear in "C" Certificate exam during the session.

*NCC Officer*

### Positive Approach

**Father** : I want you to marry a girl of my choice.  
**Son** : "I will choose my own bride!"  
**Father** : "But the girl is Bill Gates's daughter."  
**Son** : "Well, in that case...OK"

*Next Day*  
 father approaches Bill Gates.

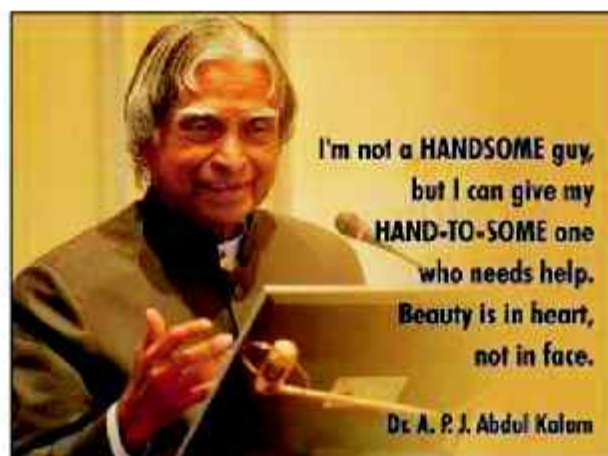
**Father** : "I have a husband for your daughter."  
**Bill Gates** : "But my daughter is too young to marry!"  
**Father** : "But this young man is a vice-president of the World Bank."  
**Bill Gates** : "Ah, in that case... OK"

Finally, Father goes to see the president of the World Bank.

**Father** : "I have a young man to be recommended as a vice president."  
**President** : "But I already have more vice- presidents than I need!"  
**Father** : "But this young man is Bill Gates's son-in-law."  
**President** : "Ah, in that case... OK"

*This is how business is done!!*

*Moral: Even if you have nothing, you can get anything. But your attitude & approach should be positive*



*Always keep in mind  
 You are not everything,  
 but you are something,  
 who can do anything!*

*... Dean*



## INFORMATION AND PLACEMENT BUREAU

The College has Information and Placement Bureau (IPB), functioning since 2001. The IPB caters to the needs of students in respect of their placement by inviting companies, MNCs/ Corporate and arranging on-campus recruitments for them; and also acquainting them about the emerging job trends globally. The bureau provides all technical facilities for presentations, written test, online test, group discussion and interviews to the recruiters. The bureau has strong infrastructural facilities such as an air-conditioned presentation room equipped with LCD where companies deliver their pre-placement talk; two air-conditioned interview room and One GD room. This Bureau is in close coordination with communication skill and personality development cell which organizes various other activities related to personality development aspects like arranging technical talk of eminent managers from corporate and eminent professors from reputed institutes, arranging student-debates on current issues, presentations by students themselves on the subject of their interest. The bureau also invites, from time to time, professionals from industry and institute to deliberate for preparation for various competitive examinations like MBA, GATE, RAS, IAS etc. and helps students in selecting a good institute for further studies for a good career.

The Bureau functions in following steps for placement:

1. Students data compilation
2. Compilation of details of prospective recruiters
3. Introductory letter to companies
4. Communication with companies and fixing of dates and process
5. Notifying the process and date
6. Holding interviews
  - i. Pre-placement talk (ppt)
  - ii. Written Test
  - iii. Group Discussion (GD)
  - iv. Personal Interview (PI)
  - v. Declaration and notification of results
  - vi. Distribution of offer letters
7. Joining of students
8. Students data verification from companies on joining and confirmation
9. Providing facilities



### Management:

The Information and Placement Bureau consists of a chairman and Six senior faculty members from different departments:

Chairman: Dr. Anupam Bhatnagar

### Members:

1. Dr. H.K.Mittal for Agriculture Engineering
2. Dr. Murtza Ali for Mechanical Engineering
3. Er. R. P. Arora for Civil Engineering
4. Er. Vinod Yadav for Electrical Engineering
5. Er. Kalpana Jain for Computer Science & Engineering and Information Technology
6. Dr. Navneet Agrawal for Electronics and Communication Engineering

**Impact:**

The establishment of the bureau has contributed immensely in the significant rise in inviting the reputed companies, holding interviews and overall placements of the students.

This is significant in last three years shown below:

Year	Discipline	Total no. of Students	Total no. of Students placed
2008-09	Ag , Mech, Elect, Mining, CSE	210	149
2009-10	Ag , Mech, Elect, ECE, Mining, CSE	228	182
2010-11	Ag , Mech, Elect, ECE, Mining, CSE, IT, Civil	334	221
2011-12 (Till Feb. 2012)	Ag , Mech, Elect, ECE, Mining, CSE, IT, Civil	384	174

Various organizations have visited us and recruited our students in recent past like Vedanta Group (Hindustan Zinc Ltd., BALCO, SesGoa), ESSAR, HINDALCO, CAIRN ENERGY, Tata Consultancy Services (TCS), Ambuja Cement Ltd., Associated Soapstone Co. Pvt. Ltd., Eicher Tractors, HCL Technologies, Hexaware Solutions, Infosys Technologies Ltd., International Tractors Ltd. (Sonalika), J K Laxmi Cement Ltd., J K Tyres Ltd., Jain Irrigations Pvt. Ltd., John Deere Equipment Pvt. Ltd., L & T Infotech, Mahindra and Mahindra, Pradan NGO, Punjab Tractors Ltd., Securemeters Ltd., Shree Cement Ltd., Srijan NGO, Syntel, Uttam Galva Steels, Wolkem Industries Ltd., Advaiya, Godha Enterprises, Udaipur, R. K. Marble Pvt. Ltd., Advaiya Solutions Pvt. Ltd., Asia Motors, ERA group, IDMC, S. G. Minerals, SOMATECH, Hindustan Construction Company (HCC), PyroTech, ESCORTS, WIPRO, Gujarat Industrial Power Corp Ltd. (GIPCL), BSES Yamuna Power, Birla Cement Works etc.

In addition to above many students have opted for the higher studies out of placed and unplaced both. Many students were having good GATE scores and opted for the M. Tech. at IITs and NITs. Some students also opted for the higher studies in Management field.

**Communication Skill and Personality Development**

In addition to that, the Bureau is in close coordination with communication skill and personality development cell organizes various activities as trainings, lectures, language labs etc.



*Placement Officer*





## Students' Activities

The year started with the wining events in Agriunifest 2010 held at Anand. Students of CTAE won gold medal in folk dance and silver medal in group song in Agriunifest 2010. A certificate distribution ceremony to the contingent of Agriunifest and welcome of new Dean Dr. N.S. Rathore was organized on 25th May, 2011. Kits of National Youth Festival were distributed to CSU and CLSU office bearer in their farewell function on 30th May, 2011.

As per the UGC regulation on curbing the menace of ragging in higher educational institutions many anti ragging committees were formed and flexes of anti ragging were displayed on the various key locations of the institution at start of the session in July, 2011. Mr. Ankush Sen final year student of CTAE was felicitated on the Independence Day function by Hon'ble Vice Chancellor for his outstanding performance in cultural functions. Dean and ADSW have met II year students of all branches individually from 27th to 30th July, 2011 and advised them for the betterment of their studies, facilities provided to them by the institution and emphasized to curb the menace of ragging and make our institution as the ragging free institution to create an example to others.

Participation certificates in "MPUAT Youth Festival Pratap-2011" and volunteer certificates in "Techfest Vibhav-2011" were distributed to the students on 30th July, 2011. Nature Conservation cycle rally and Workshop on Vision 11 was organized by Chief Conservator of forest, wildlife, Udaipur on 11th August, 2011 in which 75 students participated with full of zeal. Meetings of Dean & ADSW with III year and final year students were carried out in every branch to convince students for unopposed election from 3rd to 6th August, 2011. Many committees were formed for smooth conduction of CSU/CLSU election 2011: students' election conducted smoothly on 20th August, 2011 and declared results on the same date under the leadership of Dr. NS Rathore, Chief Returning Officer and ADSW, CTAE.

Students of CTAE participated in prize winning competition Royal Beat 2011 organized by PAHER, on 5th September, 2011 and won prizes. On Hindi Diwas 14th September, 2011, a hindi debate competition was organized for I year students. Anshul Mittal, Ms. Aditi Mehta have won I prize and Tushar Ajmera, Piyush Nagori have won II prize. 25th September, 2011, World Heart Day, a run for heart and an awareness camp was organized by GBH, American Hospital. 55 students were participated in the event. Quiz & GK competition, paper presentation and Antakshri were organized in Electronics and Communication Engineering Department on Teacher's Day (15th September, 2011). Lumba Ram Jani in Paperiza, Rajesh Parashar in Antakshri, Ms. Jyotsana Solanki, Lumba Ram Jani, Ms. Ojashri and Abhishek won prizes.

Pre Vayu Sainik Camp (PVSC) for Air Wing students of all Rajasthan was organized at Kota. Mr. Manan Tiwari II (Ag.) was selected as best shooter from Rajasthan and selected for All India Vayu Sainik Camp (AIVSC) held at Bangalore. High Power Review Team from ICAR has visited our University on 18th and 19th October, 2011 and interacted with 120 students in Conference Hall of CTAE regarding the hostel and other facilities of the institution. The team was having good opinions and has given favorable remarks about CTAE students. Inaugural function of CSU office at CTAE was held on 2nd November, 2011. The chief guest of the function was Mr. Ashok Menaria, well known cricketer of India and function was presided by Prof. S.S. Chahal Hon'ble Vice Chancellor.

Two students form CTAE have participated in 27th West Zone Inter University Youth Festival 2011 from 5th to 9th Dec., 2011 held at Sukhadia University, Udaipur. An informative cum awareness talk on low back pain sponsored by GBH American Hospital for all staff members of CTAE was organized at Conference Hall on 28th November, 2011 and around 70 staff members were benefitted by this talk.

In the New Year, Annual Festival of Sir Padampat Singhania University, Panache was organized at their campus from 11th to 14th January, 2012, a team of 4 students participated in various events and Mr. Pranay Pathak III (Ag.) has won I prize of Rs. 5000/- in English speech. A team of 4 students from CTAE have participated in Inter University debate competition held at G.B. Pant University, Pantnagar from 13th to 15th January, 2012. Mr. Mritunjay Kumar Jha, III CSE won II prize and a cash prize of Rs. 2000/- on all India bases. The participation of team was also



appreciated by Judges.

A special camp to register the name of students in the Electoral list by district authority was organized on 16th January, 2012 in the Seminar Hall of CTAE, and 23 students have registered their names. A very prestigious and special function, Convocation of CTAE & CDFST was held on 2<sup>nd</sup> January, 2012 along with the inauguration of 1 year Instructional Block. The Chief guest for both function was Dr. Ashok K Chauhan (Founder President of AMITY Group of Education) and President was Hon'ble VC, Prof. SS Chahal. A separate instructional block for 1 year students was very much appreciated by Dr. Chauhan and Prof. Chahal. Sohail Qutub III CSE was felicitated as best student on Republic Day by Hon'ble VC.

An overwhelming interest shown by II and III year students in seminar on Management as a career option- CAT & GATE by PT Education, Udaipur in Conference Hall, CTAE, on 7th Feb., 2012. Vineet Kumar Jha final BE (Ag.) participated in Mahindra Samridhi India Agri Award 2012 held at Hotel Ashoka New Delhi on 21st Feb., 2012, which is very prestigious award in the field of Agricultural Engineering. A talk on higher education in USA was organized for the final year and PG students of all branches and addressed by representative from US Embassy on 23rd Feb., 2012. 110 students participated and guided.

First time in the history of CTAE a new event of publishing the CTAE Times was done by a group of 1 year students under the guidance of ADSW (Dr. Murtaza Ali Saloda) and with consent and full support of Dean (Dr. Narendra S. Rathore). This is the monthly magazine published in the first week of every month. The efforts of the Editorial team were appreciated everywhere in the university as well as in the institution.

A team of students participated in IGNUMS 2012, cultural festival organized by IIT Rajasthan, Jodhpur from 16th to 20th Feb., 2012 and won two individual prizes. A well awaited cultural fest of CTAE, Neurofest 2012 was organized from 2nd to 4th March, 2012 in the college and auditorium. Almost 3/4th of the total strength of the students participated in 18 different events with full of zeal. This festival ended in the Suknadia Auditorium in the presence of Dean Dr. Narendra S. Rathore and all faculty members of CTAE. Neurofest 2012 was organized under the guidance of Dr. Murtaza Ali Saloda, ADSW, Dr. HK Mittal, CLSU Advisor. Neurofest 2012 was managed by Mr. Sumer Singh Rajawat (President), Mr. Mayank Kumar (GS), Mr. Harshit Bhardwaj (JS) office bearers of CLSU and a dynamic team of students' representatives. The prize distribution ceremony and Annual Day will be organized in the near future. MPUAT Youth Festival, Pratap-2012 will be organized from 26th -28th March, 2012 under the leadership of Dean & ADSW CTAE.



ADSW



*"Future is not what you plane for tomorrow,  
But it is result of what you are doing today."*

...Dean

College of Technology of Engineering

PRESENTS

# DeuroTech III

## 2012

(technical cum cultural fest)



DeuroTech III 2012

### AD MAD SHOW

DeuroTech III 2012

### COLLAGE MAKING

DeuroTech III 2012

### Nukkad Natak bridge Making

DeuroTech III 2012

### BREAK THE CODE

DeuroTech III 2012

### Rangoli COMPETITION

DeuroTech III 2012

### K STRIKE

DeuroTech III 2012

### PAPER PRESENTATION

DeuroTech III 2012

### Face PAINTING

DeuroTech III 2012

### Spot Painting

DeuroTech III 2012

### TREASURE HUNT

# Cultural Events



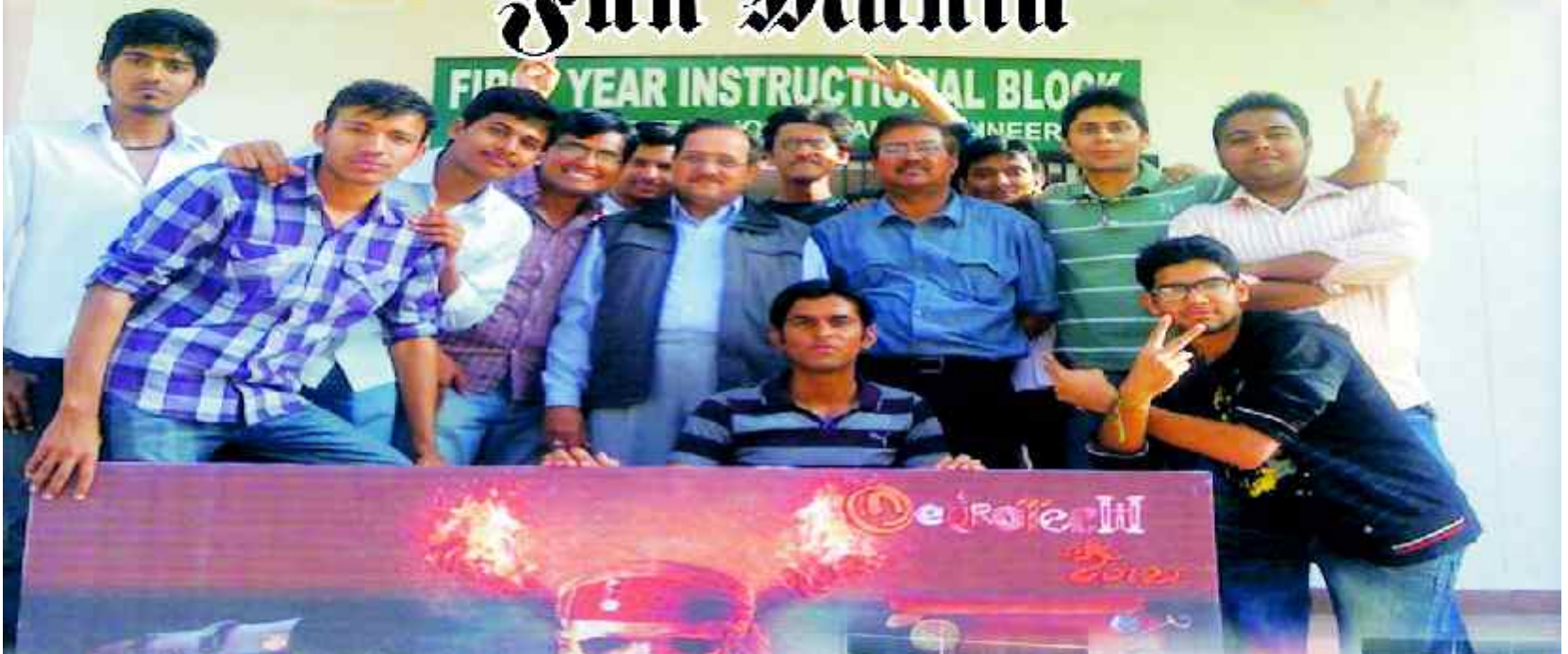


# Technical Events





# Fun Mania





# Annual Day



# Convocation



# NCC Activity



# WHERE

the mind is without fear

- ✦ Where the mind is without fear and the head is held high
- ✦ Where knowledge is free
- ✦ Where the world has not been broken up into fragments
- ✦ By narrow domestic walls
- ✦ Where words come out from the depth of truth
- ✦ Where tireless striving stretches its arms towards perfection
- ✦ Where the clear stream of reason has not lost its way
- ✦ Into the dreary desert sand of dead habit
- ✦ Where the mind is led forward by thee
- ✦ Into ever-widening thought and action
- ✦ Into that heaven of freedom, my Father, let my country awake.



*Annu Yadav*  
111 year B.Tech. (Ag.)

**Whenever You get  
Pain in your life  
Just think about  
the full form of PAIN !  
(Positive Attitude In  
Negative Situation)**

finish each day and be done with it. you have done what you could. some blunders and absurdities have crept in; forget them as soon as you can. tomorrow is a new day. you shall begin it serenely and with too high a spirit to be encumbered with your old nonsense.

-emerson

## कोशिश करने वालों की हार नहीं होती।

कोशिश करने वालों की कभी हार नहीं होती। नहीं चींटी जब दाना लेकर चलती है, चढ़ती दीवारों पर, सौ बार फिसलती है, मन का विश्वास रगों में साहस भरता है, चढ़कर गिरना, गिरकर चढ़ना न अस्वरता है, आखिर उसकी मेहनत बेकार नहीं होती, कोशिश करने वालों की हार नहीं होती।

डुबकियां समुद्र में गोताखोर लगाता है, जा जा कर खाली हाथ लौटकर आता है, मिलते नहीं सहज ही मोती गहरे पानी में, बढ़ता दुगना उत्साह इसी हैरानी में मुड़ी उसकी खाली हर बार नहीं होती कोशिश करने वालों की हार नहीं होती।

असफलता एक चुनौती है, इसे स्वीकार करो, क्या कमी रह गई, देखो और सुधार करो, जब तक न सफल हों, नींद चैन को त्याग तुम, संघर्ष का मैदान छोड़ कर मत भागो तु, कुछ किये बिना ही जय जय कार नहीं होती, कोशिश करने वालों की हार नहीं होती।

*Annu Yadav*  
111 year B.Tech. (Ag.)





## EXPIERANCE OF LIFE BY NOT JUST BEING PART OF A GAME BUT AS A GAME PLANNER

Every step of life teaches a man to rule himself but it is unfortunate to imply the word on other standing aside at the starting point. It is just the initialization, when a man decides the way of life.

Same is the beginning of mine. I always wanted to do something but it was for what I never knew. Few months back I got a chance to shape a part of my life in a new way. I intend never to lose any opportunity & I had to partake in college election, not with the political view but my view was actually not even defined to me. I just had to do something to leave life beyond being common with undefined aim. Election was a very good experience of mine.



Days just before election were supportive and as well as out of course. I had to know views of my colleagues and teachers on my decision, with a hope of being supported. Many did support but few considered it politically. In that short span of time, I came to know the views of today's young about political carrier and my conclusion on that is bright.

However, knowing each one personally was really a big challenge but however the result was in my favor. That was the moment what I call 'feeling proud.' I was praised by all with a new hope of doing some good. Even the leader of the platform on which I was standing, tagged me as someone special. And after that it was a sudden but great change. I did what I could do the best on my potential as a General Secretary of the college till then.

From then I had to stand up on the supporters table. I got many chance for that. In this one year span, each moment as a representative is been unforgettable part of my life. But most significant were the few days of Neurotech-2012(college techfest). During that short span of time I experienced another role of my position of being a good manager. In between the Neurotech period a function of three days. I experienced many sharable things. Some regards with both part of a coin. During that span, I had a lot of political as well as moral pressure of my mates and teachers. Teachers there proved to be a good guide from their part of long experience. I myself thank from the deep of my heart to all who supported me and helped me getting a good overview. Those days were auspicious and are stored in an unforgettable part of my memories.

Within the due course of time I realized that-

"we are our own leaders and have the potential to change."

*Mayank Kumar*  
C.L.S.U. General Secretary

चंद पैसो में विकता है,  
यहां इंसान का ज़मीर  
कौन कहता है मेरे देश में  
महंगाई बहुत है।

ईश्वर से कुछ मांगने पर न मिले  
तो उससे नाराज ना होना क्योंकि, ईश्वर वह नहीं देता जो  
आपको अच्छा लगता है, बल्कि वह देता  
है जो आपके लिए अच्छा होता है।



## What is 5G Technology

The 5G Technology include all type of advanced features which makes 5G mobile technology most powerful in huge demand in near future. 5G technology which is on hand held phone offering more power and features than at least 1000 lunar

5G Technology stands for 5th Generation Mobile technology, 5G mobile technology has changed the means to use cell phones within very high bandwidth. User never experienced ever before such a high value technology. Nowadays mobile users have much awareness of the cell phone (mobile) technology. The 5G technologies include all type of advanced features which is on hand held phone offering more power and features than at least 1000 lunar modules. A user can also hook their 5G technology cell phone with their Laptop to get broadband internet access. 5G technology including camera, MP3 recording, video player, large phone memory, dialing speed, audio player and much more you never imagine. For children rocking fun Bluetooth technology and Piconets has become in market.

### What 5G Technology offers

5G Technology is going to be a new mobile revolution in mobile market. Through 5G technology now you can use worldwide cellular phones and this technology also strike the China mobile market and a user being proficient to get access to Germany phone as a local phone. With the coming out of cell phone alike to PDA now your whole office would be in your finger tips or in your phone. 5G technology has extraordinary data capabilities and has ability to tie together unrestricted call volumes and infinite data broadband with in latest mobile operating system. 5G technology has a bright future because it can handle best technologies and offer process handset to their customers. May be in coming days 5G technology takes over the world market. 5G Technologies have an extraordinary capability to support Software and Consultancy. The Router and switch technology used in 5G network providing high connectivity. The 5G technology distributes internet access to nodes within the building and can be deployed with union of wired or wireless network connections. The current trend of 5G technology has a glowing future.

### Features of 5G Technology

- 5G technology offer high resolution for crazy cell phone user and bi-directional large bandwidth shaping.
- The advanced billing interfaces of 5G technology makes it more attractive and effective.
- 5G technology also providing subscriber supervision tools for fast action.
- The high quality services of 5G technology based on Policy to avoid error.
- 5G technology is providing large broadcasting of data in Gigabit which supporting almost 65,000 connections.
- 5G technology offer transport class gateway with unparalleled consistency.
- Through remote management offered by 5G technology a user can get better and fast solution.
- The remote diagnostics also a great feature of 5G technology.
- The 5G technology is providing up to 25 Mbps connectivity speed.
- The uploading and downloading speed of 5G technology touching the peak.
- The 5G technology network offering enhanced and available connectivity just about the world.

A new revolution of 5G technology is about to begin because 5G technology is going to give tough completion to normal computer and laptops whose marketplace value will be affected. There are lots of improvements from 1G, 2G, 3G and 4G to 5G in the world of telecommunications. The new coming 5G technology is available in the market in affordable rates, high peak future and much reliability than its preceding technologies.

*Vibhore Gupta*  
*BE Final Yr,*  
*Mechanical*



## मानव और प्रकृति

सृजन की पहली किरण के साथ सपेरा आता है,  
हर प्राणी के जीवन में एक नया रंग भर जाता है,  
मोर का नाच हो या पक्षियों का कलरव हो,  
हर जीव का जीवन रंगमय हो जाता है,  
प्रकृति का यही अंदाज निराला नजर आता है।

झरने कलकल की ध्वनि सुनाते है,  
पर्वत जिसके कदमों में ह्रीहा झुकाते है,  
समुद्र अपने हृदय में नदियों को सम्राते है,  
ऐसा खूबसूरत नजारा इस धरती पर बन जाता है  
प्रकृति का यही अंदाज निराला नजर आता है।

पर दुनिया की भागदौड़ में हम कुछ छोड़ रहे है,  
झूठी खुशी के लिये हकीकत से मुंह मोड़ रहे है,  
सांख्य से चली आ रही परंपराओं को तोड़ रहे है,  
यहां भागदौड़ का खेल बढ़ता ही जाता है,  
आज के मानव का कौन सा अंदाज निराला नजर आता है ?

यही चलता द्या तो सब कुछ वीरान नजर आएगा,  
कौन है ऐसा जो हमें खुशियां दे पायेगा,  
जिन्दगी की भागदौड़ में सब कुछ फूट जाएगा,  
हर वक्त मानव कुदरत से जो छेड़छाड़ कर जाता है,  
क्या वजूद है उस मानव का जो जिन्दा नजर आता है ?

आओ हम सब मिलकर एक दुनिया बनाते है,  
हमारी धरती में को फिर दुल्हन की तरह सजाते है,  
प्रकृति के हर सुर से सुर निताते है,  
यही रूपना सब के दिलों में सजाना है,  
कुछ तो अंदाज है निराला हमारा, यही कुदरत को दिखाता है।

Mohammed Nasir  
1st Year (Mech.)

## MY POEM IS DEDICATED TO CTAEIAN'S FACULTIES

गुरु का महत्व कभी होगा ना कम,  
भले कर लें कितनी भी उन्नति हम।  
वैसे तो है, इन्टरनेट पर हर प्रकार का ज्ञान,  
पर अच्छे, बुरे की नहीं है उसे पहचान।  
नहीं है शब्द, कैसे करूं धन्यवाद,  
बस चाहिए हर पल आप सब का आशीर्वाद।  
हूं जहां आज मैं उसमें है बड़ा योगदान,  
आप सब का जिन्होंने दिया मुझे इतना ज्ञान,।  
आपने बनाया है, मुझे इस योग्य,  
कि प्राप्त करूं मैं अपना लक्ष्य,  
दिया है, हर समय आपने सहारा।  
पर मैं हूं कितना मतलबी,  
याद किया ना आपको कभी।  
आज करता हूं दिल से आप सब का सम्मान,  
आप सब को है, मेरा सत-सत प्रणाम।



Gajendra Singh Parmar  
B.E. III Year  
Civil Eng.



## अश्वक

हर वक्त नहीं ये आते हैं, आ कर यादें बन जाते हैं,  
कभी पानी कहलाते हैं, तो कभी मांती बन जाते हैं।  
दुःख का आभास कराते हैं, सुख की शोभा बढ़ाते हैं,  
सच पूछो तो ईश्वर की रचना है  
फिर क्यों चाहता तू इनसे बचना है... ?  
मजबूर यही कराते हैं, कमजोर यही बनाते हैं,  
ठीक से इनकी परख करो तां, मजबूत भी यही बनाते हैं।  
कभी अपनी में आते हैं, कभी अपनों की में आते हैं,  
दिलों का हाल सुनाते हैं, बीते पल याद दिलाते हैं।  
अपना यही बनाते हैं, पराया यही कराते हैं,  
परखो इनके दस्तूर को तो, सपनों से भी यही मिलाने हैं।  
कभी खुशियों में आते हैं, कभी गम में आते हैं,  
और के गम में आ जाये तो, इन्सानियत सिखा जाते हैं।  
अहमियत तो हर चीज की है पर कभी यही अहम हो जाते हैं,  
अल्फार्जों से क्या बयां करूं, ये लम्हें लौट के नहीं आते हैं  
लौट के नहीं आते हैं ....

*Shivam Mangal*  
III Year (Mech.)

**पुरानी पीढ़ी :**

**नेकी कर दरिया में डाल**

**नई पीढ़ी :**

**कुछ भी कर फेसबुक पे डाल।**

## A New Beginning

Nothing lasts forever,  
not even yours sorrows,  
for after every dark night,  
there's always bright sunlight.  
Don't think that you are left all alone,  
Don't think that there is no way,  
look inside yourself and see,  
some one waiting for you,  
It's you yourself,  
why do you doubt ?  
have confidence, hope and pray.  
To stand the storms that pass you by.  
And spread this message too.  
So stand up boldly and face the Crowd.  
Make a new beginning of life.  
Give your existence a new meaning  
of which you and me will be proud.

*Mohan Lal Choudhary*  
II CSE

## Time is Very Precious-

"Ask importance of one year to a student,  
who failed in a class".

"Ask importance of month to a worker,  
who has not paid salary after completing  
one month work".

"Ask importance of one week to a person  
who stayed in relative house for one week".

"Ask importance of one hour to a person  
waiting for some one from last one hour".

"Ask importance of one minute, who  
missed train".

"Ask importance of one second, who  
escaped a major accident".

*Dean*



## Micro-Programmer of CTAE



Phagun Singh Baya, a student of BE Third Year is a passionate young computer programmer, micro-programmer and web designer of the city. He has been hired as a free lancing programmer on a special request by electronic gadgets manufacturing company, Walnut Innovations in the same year for live projects. He has made the projects like oil sensor (patent project) in collaboration with Walnut Innovations which has been successfully installed in Kerela, Kamataka and Gujarat. Another project has been successfully tested and installed in Kerela which is an automatic cardamom processor and for that he has been greatly appreciated with a certificate, an appreciation letter and a profit percentage. He has also given this contribution to IT company as a technical assistant in 2011. As a technology lover and enthusiastic creator he has also made wireless audio signal transmission system to listen any audio signal transmitted within a range of 200 meters. Besides this he has created over a dozen websites for corporates, small businesses, well known organizations and individuals on the request and was awarded an appreciation from many professionals from web development field across India for tremendous work. Presently, he is working on a spy gadget and many other India level projects. In field of social contribution, he is a founder and path maker of Udaipur Talents, which is a social group of Udaipur for the welfare of talented persons and poor children of Udaipur with a future dream to make a talent school for Udaipur.

*Student Editors*





## आँसू मेरी कीमत ना घटाना

बार-बार जो बहते हैं तेरे अश्रक  
हर बार कुछ ना कुछ कहते हैं तेरे अश्रक।

हर आँसू ये कहता है - तूने मेरी कद्र नहीं जानी  
गिरा दिया मुझे आँसू से क्यों समझ के पानी।

तेरे दिल में रखा गया था मैं किसी और के लिए  
और तूने बहा दिया मुझे किसी और के लिए।

अपनी नहीं परवाह पर मेरा ध्यान तो रख लेता  
अपना नहीं ख्याल पर मेरा तो किया होता।

परेशान तू होता है कीमत में अदा करता हूँ  
जहान से तू मायूस होता है और जुदा में होता हूँ।

काश! मैं आता अपने प्यार के लिए  
सोचता कि गिर गया अपने प्यार के लिए।

बार-बार गिरता है तू मुझे दुनिया के लिए  
आखिर क्यों बहाता है तू मुझे जमाने के लिए।

मोती हूँ तेरी आँख का मुझे पानी न समझ  
ये मेरा हाल-ए-दिल है इसे कहानी न समझ।

गौर करना मेरी बात पे यूँ ही न छोड़ देना  
ख्याल रखना अपना  
मेरा, मुझे यूँ न बहा देना।

*Ashish Kumar Agarwal*  
B.E. 1<sup>st</sup> Year  
Agricultural Engg.

## “ माँ आज फिर तेरी याद आई ”

माँ आज फिर तेरी याद आई,  
बनके तू आँसू मेरी आँखों में समाई,  
करता हूँ याद जब भी अपने बचपन को,  
हर पल हर घड़ी तू ही नजर आई  
जब-जब देखना चाहा भगवान को आँखें बंद कर  
वो माँ तू ही थी जो मुझे दी दिखलाई।  
माँ आज फिर तेरी याद आई।

रोता था जब मैं डर के अंधेरे से  
तू ही थी वो नौ जिसने मुझे हिम्मत बंधाई,  
जब-जब रोया मैं भूख से  
तो माँ तूने ही मुझे अपने हिस्से की रोटी खिलाई,  
हिम्मत न थी पापा को बात कहने की  
तूने ही ठग तक मेरी बातें पहुंचाई,  
माँ आज फिर तेरी याद आई।

जब-जब धूप ने मुझे रगताया,  
तो नौ तू ही बनी मुझ पर छाया,  
सर्दी से बचाने के लिए तूने ही मुझे सीने से लगाया  
बारिश में भीगकर खुद तूने मुझे बचाया,  
जमाने की बुरी नजर से बचाने के लिए  
तूने ही मुझे काला टीका लगाया,  
बन कर लशाल तूने मुझे राह दिखाई,  
माँ आज फिर तेरी याद आई।

सभी लोगों ने छोड़ा मुझे अकेला  
क्योंकि यही दुनिया का खेला,  
पर नौ तूने बिना किसी शर्त के  
मुझ पर खुशियां लुटाईं  
जब-जब छुआ मुझे बुराई ने  
नौ तेरी बुआ ही थी जो मेरे काम आई,  
मिटा के बुराई को तेरे आशीर्वाद ने  
मुझे जमाने की हर खुशियां दिलाईं,  
माँ आज फिर तेरी याद आई।

जो खुशी मैंने जमाने में पाई  
वो सारी तेरे दामन में समाई,  
तेरी ममता ने ही मुझे दुनिया में  
प्यार से रहने की कला सिखाई,  
तेरे आशीर्वाद ने ही मेरी भाग्य रेखा बनाई  
माँ आज फिर तेरी याद आई ....  
माँ आज फिर तेरी याद आई ....  
माँ आज फिर तेरी याद आई ....

*Mahesh Singh*  
B.E. 1<sup>st</sup> Year  
Mechanical



## The Gayatri Mantra : A Master Mantra

Among all the mantras, the Gayatri is called the essence of all mantras. All spiritual powers and potencies are contained hidden within it. The Gayatri is Meditation on spiritual light. In all the teachings and scriptures, Gayatri is called supreme in bestowing enlightenment. It is practiced by Hindus and Buddhists alike. For pure spiritual potency in the accumulating of highest spiritual light. There is nothing to compare with the Gayatri Mantra. While other mantras are great for their purpose, this one is specifically for are great for their purpose, this one is specifically for the purpose of enlightening the intellect.

Each day when you get up in the morning pray to god for just two minutes, surely you can afford that much time for your creator everyday.

O' God, I make myself hollow & lay myself at your disposal use me today for working out your will in whatever way want. "Aaj meri ghanti tumhari aarti ban jaye". You will think twice before indulging in a wrong act or taking a false step.

*Ashish Kumar Agarwal*  
B.E. IV Year  
Agricultural Engg.

## THOUGHT FOR THE DAY



A positive attitude may not solve all your problems, but it will annoy enough people to make it worth the effort.

**Herm Albright**

A person who has good thoughts cannot ever be ugly. You can have a wonky nose and a crooked mouth and a double chin and stick-out teeth, but if you have good thoughts they will shine out of your face like sunbeams and you will always look lovely.

**Roald Dahl**

Let us rise up and be thankful, for if we didn't learn a lot today, at least we learn a little, and if we didn't learn a little, at least we didn't get sick, and if we got sick, at least we didn't die; so, let us all be thankful.

**Buddha**

A car can't operate without the mechanical systems working, but it can operate with a few dents and scratches. . . , you are the same.

*Dinesh Kumar Gurjar*  
Agriculture Engg.

**Do or Die is old proverb,  
Do before you Die is need of hour ...Dean**



## 5 TIPS TO SUCCEED IN A JOB INTERVIEW



जब दीवारों में दरार पड़ती है तो दीवारें गिर जाती हैं,  
जब संबंधों में दरार पड़ती है तो दीवारें बन जाती हैं।

सपने वो सच नहीं होते जो सांते वक्तदेखें जाते हैं,  
सपन वो सच होते हैं, जिनके लिए आप सोना छोड़ देते हैं।

You've finally had success at finding that dream job. Now, all that is left is the INTERVIEW. Your nerves are shot, and you are worried that after coming this far that you won't land the job.

Relax!

The interview, although it seems intimidating, can be the easiest part of getting that dream job. With these simple tips and tricks, you can rest assured that your interview will be a success.

### 1. PUT YOURSELF IN THE INTERVIEWERS SHOES

Once you do this, you will get a feel for what the company is looking for. This can help relax you by giving you a sense of awareness, thus making you more comfortable.

### 2. BE PREPARED

"Knowledge is the key". Research the company so that you can understand what the company is looking for in an employee. This simple step can give you an idea of what questions you can expect and make answering those questions almost second nature.

### 3. FOCUS ON YOUR STRENGTHS

The company already feels that you have the experience to handle the job. Highlight the positives of your past experiences. Don't let gaps in employment be the main focus of your interview.

### 4. LISTEN

Listen to the questions that are posed to you. If you are unsure of what is being asked, ask the interviewer to explain themselves. Believe it or not, asking questions makes you seem more interested in the position by making you sound eager to learn what the company's expectations are.

### 5. BODY LANGUAGE

Smile, keep eye contact and maintain a relaxed posture. This shows the interviewer that you are comfortable with your previous work experience, and gives a sense of self-confidence. The interviewers find this impressive!

So by keeping a track on these tips, you can easily fight your interview and succeed by achieving your dream job.

*Himanshu Agarwal*  
Final Year IT



*(An image showing the original gargoyle model on the left and that produced through 3D printing on the right-Screen, shows the 3D drawing used to produce the gargoyle model replica)*

### **MARVELOUS MECHANICAL 3D PRINTING**

Imagine what would happen if you could create countless replicas of your favourite showpiece, or create 3D models directly from your simple CAD designs. Now its all possible!

### **WELCOME TO THE WORLD OF 3D PRINTING**

3D printing is a form of additive manufacturing technology where a 3D output is created by laying down successive layers of material. 3D printers are generally faster, affordable and easier to use than other additive management technologies. 3D printers offer product developers the ability to print parts and assemblies made of several materials with different physical and mechanical properties in a single build process. Advanced 3D printing technologies yield models that closely emulate the look, feel and functionality of product prototypes. A 3D printer works by taking a 3D computer file and using and making a series of cross sectional slices. Each slice is then printed on top of the other to create the 3D object.

Since 2003, there has been a large growth in the sale of 3D printers. Additionally the cost of 3D printers has declined. The technology also finds use in the jewellery, footwear etc.

### **METHODS EMPLOYED IN 3 D PRINTING ARE**

1. Selective Laser Sintering (SLS)
2. Fused deposition modeling (FDM)

These methods use melting or softening of material, other methods lay liquid materials that are cured with different technologies.

It was all started in 2006 by Sebastian Dion, John Balistreri at Bowling Green State University.

### **FURTHER APPLICATIONS**

Applications include design visualization prototyping / CAD, metal casting, architecture, education and geospatial.

Research on artificial tissues and organs / body parts to be produced is also going on full fledged.

*Jayashri Sehajpal*  
*III Year B.E.*  
*Mechanical*



## Remembering College Days

Week by week, I stand and seek:  
 To recount the days that were unique!  
 The days that are called "college days"  
 Carry fun, friends & food until it stays!  
 Even boring lectures felt so good:  
 But what was taught was hardly understood!  
 Teachers taught "This is called inversion of configuration"  
 But for us that was no more than a mental disintegration!  
 Bunking classes was a necessary element:  
 But who cares when it's about movies, so say no to curtailment!  
 The sweetest part of it were the friends:  
 & v were tied together like the DNA Strands!  
 Laughing & Crying v all did together:  
 Telling the secrets to feel as light as feather!  
 College Functions & Fests were most memorable:  
 Although expecting a big celebrity was no more than a fable!  
 College elections are what no one can forget:  
 At least 1 seat in Union every year is I think was our target!  
 And now that the days have passed by, We will miss the Alma-Mater;  
 & I pray for each of my friend to get in life what really matter!

*Himanshu Agarwal*  
 Final Year (IT)



## Key to Success



- Read, but write more,
- Talk, but think more,
- Play, but read more,
- I promise you will succeed sure.
- Eat, but chew more,
- Weep, but laugh more,
- Sleep, but work more,
- I promise you will be healthy sure.
- Hate, but love more,
- Order, but obey more,
- Quarrel, but agree more,
- I promise people will love you sure.

*Rajeev Soni*  
 IT Civil Engg.

LAUREL ATHERTON



*A Daughter is one  
 of the most beautiful  
 gifts this world  
 has to give.*



## “Why looking for ROLE MODELS in others, when you have it in your OWN?”

“Why looking for ROLE MODELS in others, when you have it in your OWN?”

Feeling a little down or cannot seem to find any inspiration..... Here are certain ways how to love yourself and be a role model:-



- Start respecting yourself, try to achieve something.... U will get noticed. Don't try to get into someone else's shoes. It never helps.
  - Stick to your own words.
  - Never let anyone down, your actions are better than your words.
  - Don't depend blindly on others, by doing so you just end up your originality. Try to achieve something in your field of interest.
  - Live by your values and principles so that others feel safe, assured and inspired around you.
  - Have a positive attitude towards life.
- Don't ever feel that it's only you who always get into troubles, instead develop a feeling that if God puts you into endless trials then SURELY HE MUST HAVE PLANNED SOMETHING GREAT FOR YOU!!!!

The last and the most important never ever develop a sense of inferiority in you because underestimating yourself means putting a BIG 'ZERO' in front of the innumerable and unmeasurable qualities that you possess.

We are ALL role models whether we like it or not, to our younger siblings or kids in our neighbourhood, to our family and friends.

A famous quote by Confucius supports this view:-

“If I am walking with two other people, each of them will serve as my teacher. I'll pick out the good points of the one and imitate them, and the bad points of the other and correct them in myself.”

*Himanshu Agarwal  
Final Year (IT)*

“दोस्तों की दास्तान जब वक्त तुम्हें सुनायेगा,  
तुम्हें यह प्यारा कॉलेज याद आएगा  
भूल जाओगे जिन्दगी के गमों को जब  
सी.टी.ए.ई. तेरा नाम याद आएगा”

**अधिष्ठाता**

**LEO TOLSTOY**

**Everyone thinks of  
changing the world,  
but no one thinks of  
changing himself...**



## STEPS OF SUCCESS

- > Dream is not what you see in sleep, dream is the thing which does not let your sleep.
- > The world we have created is a product of our thinking; it cannot be changed without changing our thinking.
- > The difference between 'impossible' and possible lies in a person's determination.
- > Talent is born in silence but character is born in the struggle of life.
- > If you want to be a winner, hang around with winners.
- > Your treasure house is within; it contains everything you need.
- > What does it take to be a champion? Desire, dedication, determination, concentration and the will to win.
- > In character, in manner, in style, in all things the supreme excellence is simplicity.
- > It is through cooperation, rather than conflict that your greater success will be derived.
- > It's simply a matter of doing what you do best and not worrying about what the other fellow is going to do.
- > Greatest reward for doing is the opportunity to do better.

Gajendra Singh Parmar  
B.E. III Year (Civil Engg.)

## मनसा वाचा कर्मणा

ईश्वर ने हर प्राणी को सब कुछ दिया है। कम से कम ये तीनों चीजें तो हर प्राणी को पास अवश्य रहती हैं हमारे पास इनका अपार भण्डार भरा रहता है और सबसे बड़ी बात तो यह है कि हर प्राणी को बुद्धि प्रदान की जिसका उपयोग कर वह स्वयं प्रकाशमान होकर दूसरों को भी प्रकाशित कर उनका मार्गदर्शन कर सकता है।

एक चींटी को देखिए जब आप उसके चलने वाले रास्ते में कोई बाधा उत्पन्न कर देते हैं तो वह अपना मार्ग बदल कर दूसरा रास्ता अपना लेती है परन्तु अपना कर्म कभी नहीं छोड़ती है। वह तो अविचल चलती ही रहती है अर्थात् उसमें बुद्धि तो निश्चित रूप से विद्यमान है। वह एक मूक प्राणी है। वह बोल नहीं सकती है। उसका कष्ट वह किसी को बता नहीं सकती है। सोच कर सोचें यदि हमारे तरह सब प्राणी बोलने लगें तो क्या होगा?

हर जीव या प्राणी उसके साथ हां रहे अन्याय का खिलाफ आवाज उठावंगा और हमारी ये अदालतें कम पड़ जावेंगी।

हम मनुष्य के पास ईश्वर का दिया हुआ सब कुछ मौजूद है। हम मन, वचन, कर्म एवं बुद्धि से इनका सदुपयोग करें। तो क्या नहीं हो सकता है?

यदि हम आज से ही यह ठान लें कि हम इनका सदुपयोग कर ऐसा काम करेंगे कि दूसरे हमारे द्वारा किये गये कर्मों की भुरि-भुरि प्रशंसा करें। हमारे से प्रेरणा ले सकें। ऐसे कई महापुरुष इस संसार में आये जिनके जीवन से हम प्रेरणा ले सके और अपने जीवन को धन्य कर सके। उनके द्वारा किये कर्मों से हमारा मही व सच्चा मार्गदर्शन हुआ।

इसलिए आज से ही यह निश्चित कर लें कि मैं ऐसा कोई काम नहीं करूँगा जिससे लोग पीठ पीछे मेरी प्रशंसा ही नहीं करेंगे। बल्कि मेरे कर्मों की भुरि-भुरि प्रशंसा ही करेंगे। मेरे से प्रेरणा लेकर मेरा अनुसरण करें।

हमारे को ईश्वर ने मन, वचन, कर्म और बुद्धि आदि रूप से अपार शक्तियाँ दी हैं। इनका सदुपयोग कर हम अपने जीवन ज्योति से स्वयं प्रकाशित होकर दूसरों को भी प्रकाशित करें। जिससे हम अपनी पहचान बनायें, अपने परिवार की पहचान बनायें, अपने समाज की पहचान बनायें और पूरे विश्व में इस देश का नाम उज्ज्वल करें। फिर देखो तुम स्वयं अपने आपको कितना गवित पाओगे। मन ही मन इतना खुश हो जाओगे कि हर कोई तुम्हारी मुस्कान देखकर खुश होकर तुमसे प्रेरणा प्राप्त करने का प्रयास करेगा।

हम ईश्वर की दी हुई इन अगार शक्तियों का सदुपयोग कर कुछ न कुछ सदकर्म करने का प्रयास करें। समय-समय पर ईश्वर ने स्वयं प्रकट होकर हमें भटकने से बचा का हमारा मार्गदर्शन किया कि

कर्मण्ये वा धिका रक्षते, मा फले सुकंवा चक  
मा कर्म फले हेतु रक्ष  
नते, सजोस्व कर्मणोः।  
अथात्

कर्म किये जा, फल की इच्छा मत कर वह तो मेरे ऊपर छोड़ दे। जैसा काम करेगा वैसा ही फल प्राप्त करेगा।

धेयान् स्व धर्म विगुणः। पर धर्मात् स्व निश्चिजान् स्वधर्मे निधनम् श्रेय।  
परधर्मो म्यावहः।  
अथात्

ईश्वर ने आपको जिस धर्म में जन्म दिया है वही धर्म सर्वश्रेष्ठ है उससे समान गुणी कोई धर्म नहीं है। इसीलिए अपने धर्म में ही रहना श्रेष्ठकर है। दूसरा धर्म भयावह है जो कि चास्त्व में सत्य है।

ईश्वर द्वारा प्रदत्त इस मार्गदर्शन का अनुसरण करना चाहिए।

B.S. Patwa  
Technician, Electrical Dept.



## I didn't know

1. MOPED is the short term for 'Motorized Pedaling'.
2. POP MUSIC is 'Popular Music' shortened.
3. BUS is the short term for 'Omnibus' that means everybody.
4. FORTNIGHT comes from 'Fourteen Nights' (Two Weeks).
5. DRAWING ROOM was actually a 'withdrawing room' where people withdrew after Dinner. Later the prefix 'with' was dropped..
6. NEWS refers to information from Four directions N, E, W and S..
7. AG-MARK, which some products bear, stems from 'Agricultural Marketing'.
8. JOURNAL is a diary that tells about 'Journey for a day during each Day's business'.
9. QUEUE comes from 'Queen's Quest'. Long back a long row of people as waiting to see the Queen. Someone made the comment Queen's Quest..
10. TIPS come from 'To Insure Prompt Service'. In olden days to get Prompt service from servants in an Inn, travelers used to drop coins in a Box on which was written 'To Insure Prompt Service'. This gave rise to the custom of Tips.
11. JEEP is a vehicle with unique Gear system. It was invented during World War II (1939-1945). It was named 'General Purpose Vehicle (GP)'. GP was changed into JEEP later.
12. Coca-Cola was originally green.
13. The most common name in the world is Mohammed..
14. The name of all the continents end with the same letter that they start with..
15. The strongest muscle in the body is the tongue.
16. TYPEWRITER is the longest word that can be made using the letters only on one row of the keyboard.
17. Women blink nearly twice as much as men!!
18. You can't kill yourself by holding your breath.
19. It is impossible to lick your elbow.
20. People say "Bless you" when you sneeze because when you sneeze, your heart stops for a millisecond.
21. It is physically impossible for pigs to look up into the sky.
22. The 'sixth sick sheik's sixth sheep's sick' is said to be the toughest tongue twister in the English language.
23. If you sneeze too hard, you can fracture a rib. If you try to suppress a sneeze, you can rupture a blood vessel in your head or neck and die.
24. Each king in a deck of playing cards represents a great king from history:
  - o Spades - King David
  - o Clubs - Alexander the Great,
  - o Hearts - Charlemagne
  - o Diamonds - Julius Caesar.
25. Horse Statue in a Park..





- If a statue of a person in the park on a horse has both front legs in the air, the person died in battle.
- If the horse has one front leg in the air, the person died as a result of wounds received in battle
- If the horse has all four legs on the ground, the person died of natural causes.
- 26. Standard Gauge of Railways was decided by the horse hips. Railways dimensions came from wheels dimensions of Imperial roman Chariots which were made to be just wide enough to accomodate back-ends of two war horses.
- 26A. Even dimensions of SRB (solid rocket boosters) of Space Shuttles are having horse-back connection, because their size is decided from the maximum could be carried through Standard gauge tunnel.
- 27. What do bullet proof vests, fire escapes, windshield wipers and laser printers all have in common?  
Ans. - All invented by women.
- 28. Acrocodile cannot stick its tongue out.
- 29. A snail can sleep for three years.
- 30. All polar bears are left handed.
- 31. Butterflies taste with their feet.
- 32. Elephants are the only animals that can't jump.
- 33. On average, people fear spiders more than they do death.
- 34. Shakespeare invented the word 'assassination' and 'bump'.
- 35. The ant always falls over on its right side when intoxicated.
- 36. The electric chair was invented by a dentist.
- 37. The human heart creates enough pressure when it pumps out to the body to squirt blood 30 feet.
- 38. Rats multiply so quickly that in 18 months, two rats could have over million descendants.
- 39. Wearing headphones for just an hour will increase the bacteria in your ear by 700 times.
- 40. The cigarette lighter was invented before the match.
- 41. Most lipstick contains fish scales.

*Sudhakar Jindal*  
*Apstracted from Internet*

## सुरक्षा सप्ताह



पुलिस वाले ने कार चालक को रोका और कहा :- यह सुरक्षा सप्ताह है, आप सीट बेल्ट पहनकर कार चला रहे हैं, इसलिए आपको पांच हजार का इनाम दिया जाता है। आप इन रूपयों का क्या करेंगे?  
कार चालक - मैं इन रूपयों से अपना ड्राईविंग लाइसेंस बनवाऊंगा।  
पिछली सीट पर बैठी उसकी मां बोली - इसकी बार्तो पर वकील मत करना साहब, यह दारू पीकर कुछ भी बोलता रहता है।  
तभी बातचीत सुनकर नींद से जागे पिताजी बोलें - मुझे पता था। चोरी की कार में ज्यादा दूर नहीं भाग पाएंगे।  
उसी बीच डिक्की से आवाज आई - भाई हमने बॉर्डर पार कर लिया क्या?



## Puneet Sahalot Delivers A Talk at International Wordcamp 2011

Puneet Sahalot, final year B.E. student of Electronics and Communication Engineering was invited to share his knowledge and deliver a talk about WordPress (the largest open source blogging and CMS platform) development at International WordCamp 2011 organized at Jabalpur, India on October 15-16, 2011.

WordCamp is a yearly event held in many parts of the world as a formal or casual meet-up between WordPress enthusiasts, developers, entrepreneurs and bloggers. WordCamp Jabalpur was the second WordCamp organized in India, the first one being WordCamp Delhi organized in 2009. Considering Puneet's skills, experience and knowledge about WordPress, he was invited as a speaker for this event.



A total of 16 speakers from different parts of the country and from Sri Lanka, were invited for this event. Puneet, was one of the youngest and only speaker from the state of Rajasthan. So, that

definitely brings more pride to our college, CTAE. Puneet delivered his talk on WordPress Optimization and shared knowledge with around 200 attendees and fellow speakers.

Just to add more, Puneet has been working with WordPress for over two years now. He has worked with top notch designers of the world and also served many international clients who work at AT&T, CNN, Gartner and many other renowned organizations.

And to conclude, we would like to mention that he has also excelled with his photography skills. His photograph was selected among Top 500 photographs in a competition organized by National Geographic Channel, India. The event received a whopping 64000+ submissions. Lastly, he is also co-founder of the first ever local news site of Udaipur, UdaipurTimes.com

## BLOGGERS OF CTAE

In the recent years students of CTAE have done some great work in significantly registering the online presence of the college in form of various blogs, media and utility websites they created.

Three students Vishal Acharya, Puneet Sahalot and Chirag Rath got together and created two websites. They started an online campaign against corruption on the website [www.youthagainstcorruption.in](http://www.youthagainstcorruption.in). It was launched at the time when whole India was agitating against corruption in the movement initiated by Anna Hazare. This online campaign has over 800 registered contributors and counting. The second website by these students is a technology blog [www.bhramit.com](http://www.bhramit.com) where they discuss about the latest electronic gadgets, web apps and web development and other things they love.



Vishal Acharya



Chirag Rathi



Puneet Sahalot





## THE JUNIOR CLUB When I was Junior



The Junior Club was started as a summer training project by a simple guy of our College, Mr. Tanuj Jain. He started this website for his own purpose of learning php.

Then, gradually he diverted the website towards the happenings of CTAE & MPUAT.

Our university & college do have very good websites of their own, which gives us all the knowledge that a student needs to complete his Degree. But if you want to know the day to day activities of the college or about the talented students of the college or if you are in search of previous years' examination papers or you want to know the schedule of NSS camp or blood donation camp or the schedule of other activities going on in the college and much more.....

<http://www.thejuniorclub.co.in> is the website you should visit once.

**Competitive Edge** :- Provides online resources for Overall development of students so that they can survive in this competitive world.

**Inspire**: stories of those people/students who can inspire our students to achieve their goals of life...

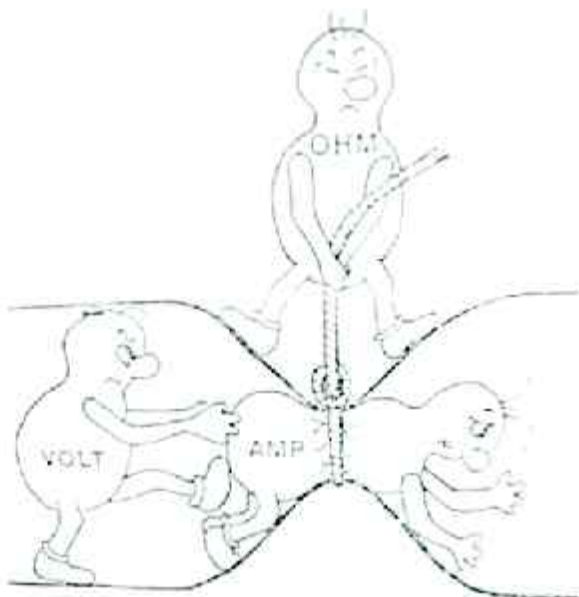
**Events** : This showcases most preferable events for students of our College.

The **PROJECT** section was also recently launched providing online resources for project guidance.

And much more to explore.....



*Student Editor*







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