

ARAVALI

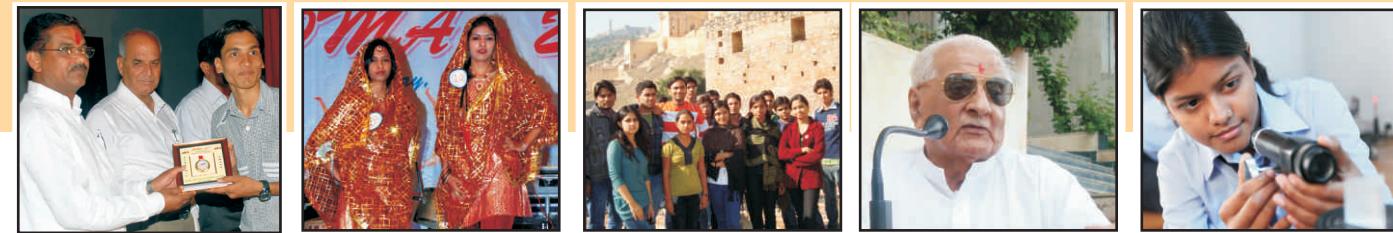
GROUP OF COLLEGES
UDAIPUR

- Aravali Institute of Technical Studies - B. Tech.
Approved by AICTE, Govt. of India
Affiliated to Rajasthan Technical University, Kota
- Aravali Institute of Management Studies - M.B.A.
Approved by AICTE, Govt. of India
Affiliated to Rajasthan Technical University, Kota
- Aravali College of Science & Management - B.B.M., B.C.A.
Affiliated to Mohan Lal Sukhadia University, Udaipur
- Aravali College of Teacher's Training - B.Ed.
Approved by NCTE, Govt. of India
Affiliated to Mohan Lal Sukhadia University, Udaipur
- Vision School of Management, Chittorgarh - M.B.A.
Approved by AICTE, Govt. of India
Affiliated to Rajasthan Technical University, Kota
- Vision School of Commerce, Chittorgarh - B.B.M. & B.C.A.
Affiliated to Mohan Lal Sukhadia University, Udaipur

TECH AROMA

2010-11

Annual Magazine



ARAVALI

Institute of Technical Studies
UMARDA - UDAIPUR (Raj.)

Admission Cell

Tel. No. : +91 294-2650131-35
Mobile No. : +91 9414164115
Email : info@aravalieducation.org
Website : www.aravalieducation.org
www.visionmanagement.org



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ARAVALI

Institute of Technical Studies
UDAIPUR



Editorial Board

Faculty

Mr. Hemant Dhabhai
Mr. Bhoopendra Kr. Sharma
Mrs. Monika Jain
Mr. Aabhash Mathur
Mr. Anand Jain
Mrs. Madhu Murdia

Students

Narendra Pal Singh
Sohail Quazi
Rishi Mathur
Bhavesh Jain
Antim Soni



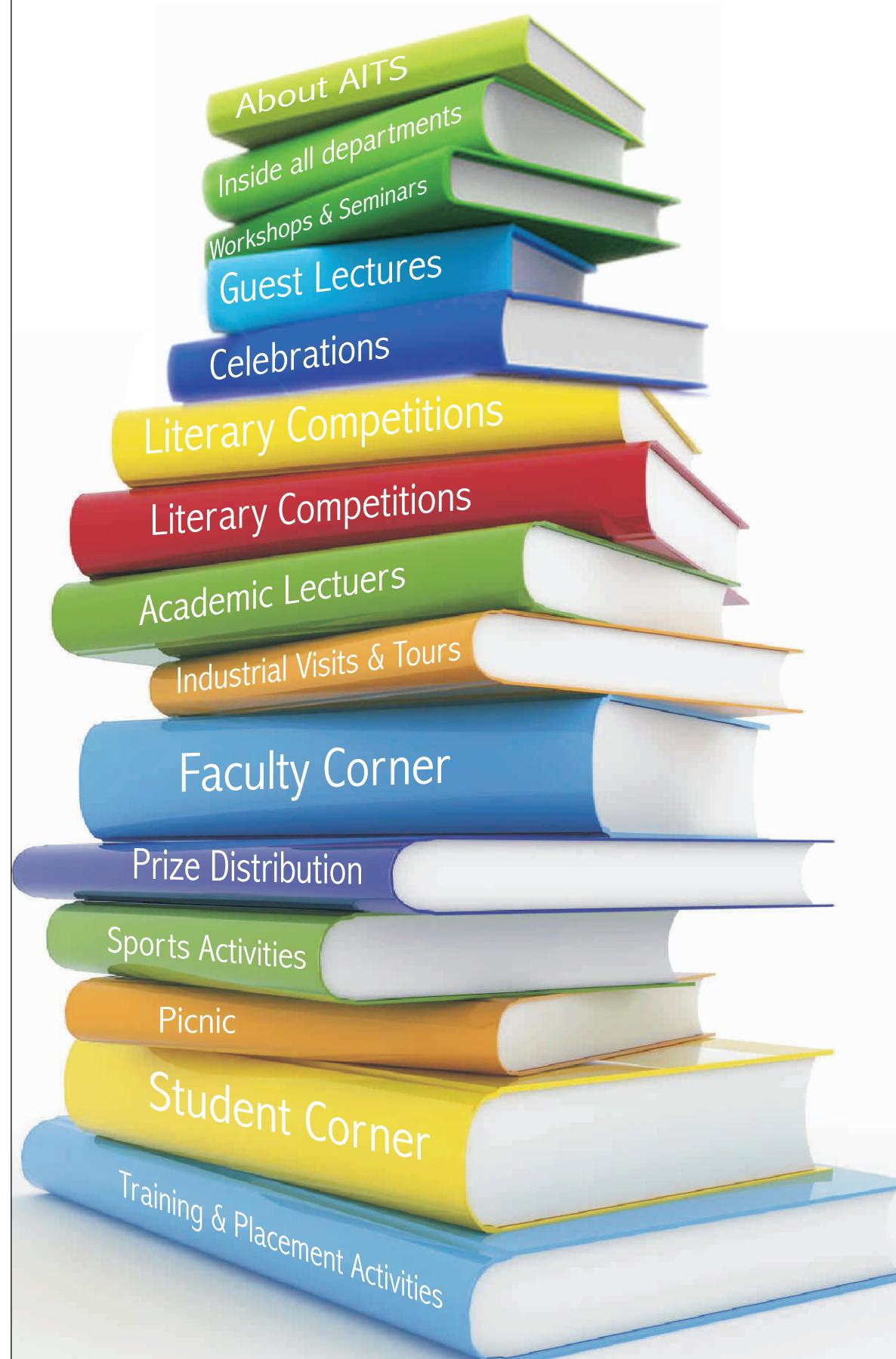
A Magazine of any educational institution is a picture of the true knowledge and caliber of its students. It shows how far they are and can go in the line of true education. It revels the essence of educational values acquired by them from the Institutional environment. A deep sense of appreciation, gratitude and joy surges through my heart as I speak to you through this second annual college magazine of AITS.

TECHAROMA provides an excellent overview of several events and programs like Guest Lectures, Personality Development Lectures, Cultural Events, Industrial tours, Literary Events, Sports Events, Workshops and Placement activities organized by AITS during session 2010-11.

TECHAROMA acts as the mouthpiece that shows the creative talent of our students. Imagination and creativity play a vital role in identifying areas where technological developments could bring maximum benefits to the society. I congratulate all those whose efforts have helped produce the current issue of TECHAROMA and wish the magazine all success in future.

HEMANT DHABHAI
ADSW & Editor-in-Chief

Contents



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Mr. Anand Jain
Mrs. Madhu Murdia

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Editorial



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ABOUT AITS

“ The institute is set in a blend of academic and research ambience and caters largely to the overall development of students' personality. Not only do we inculcate in them the best of creative and technical qualifications, we also teach them indispensable human qualities. ”



Aravali Institute of Technical Studies (AITS), Udaipur was founded with the collective efforts of many devoted experts having long and outstanding academic experience in the field of professional education. The social and political figures, who are all committed to one cause, that is to impart quality infrastructure and best teaching to the students. The campus is located amidst the Aravali hills. The institute has evolved a unique system of skill enhancement program. The aspiring managers / technocrats conduct various activities throughout the academic year in order to develop their leadership skills, values of cohesiveness, decision making ability, increasing knowledge base and value of good human being. The institute is set in a blend of academic and research ambience and caters largely to the overall development of students' personality. Not only we inculcate in them the best of creative and technical qualifications, we also teach them indispensable human qualities. Our focus would be to infuse spirit of enterprise and develop people such that they are groomed to become entrepreneurial managers / technocrats, that is, either entrepreneurs (to set up and grow their own organizations) or entrepreneurs (to join and grow the employer organizations).

Supporting Green Revolution

The fully residential campus is eco-friendly and supports Green Revolution, with water recycling by a state-of-the-art Sewage Treatment Plant. A modern reverse osmosis water treatment plant

ensures safe and clean drinking campus-wide. Landscaping is being done by an eminent horticulturist.

The complete campus is designed by the best architect of Udaipur having a great experience in the construction of college buildings. The building is designed such that it requires minimum utilization of electricity, all the rooms receive ambient sunlight during the day time and have proper ventilation. Classrooms and laboratories are quite spacious and have all the modern facilities. The Institute has an indoor seminar hall with the capacity of 300+ seats in which regular sessions are held to enhance the personality of the students. An open air auditorium has also been constructed to provide a seating capacity for more than 1000 students.

OUR MISSION

To train and equip young energies with national as well as global perspective, sharp analytical insight and strive towards hardwork and dedication.

OUR VISION

" Tomorrow will take care of itself, if one does an excellent job today". To nurture and develop talent, blended with values and technology to strengthen the technical man power of the nation.

ACADEMIC PROGRAMS:

Branches	Intake Capacity
Computer Engineering	120 Seats
Electronics & Communication Engg.	60 Seats
Mechanical Engineering	120 Seats
Electrical Engineering	60 Seats

*These Programs are Approved by AICTE and are Affiliated to Rajasthan Technical University(RTU), Kota

EDUCATION QUALIFICATION:

1. B.Tech First Year:

The minimum academic qualification for admission to B.Tech. program is a pass (with Minimum 50% in PCM) in the final examination of 10 +2 (class XII) of Board of Secondary Education, Rajasthan or any other examination recognized equivalent thereto by Board of Secondary Education, Rajasthan.

2. Lateral Entry in Second Year (For D-D Students)

The minimum academic qualification for direct admission to B. Tech. Second year program is a Diploma holder in any branch of Engineering (with Minimum 50% aggregate Marks) from the recognized university.

We are steadfastly committed to maintain and improve our outstanding status in the quality of faculty, quality of programs, quality facilities, and quality of graduates. We are firmly focused on earning the College a huge reputation for excellence and developing it into a choicest destination for engineering education in the country. Ambition is the fuel for achievement. For sure, at AITS, we are fired up and fuelled by an ambition to reach and remain atop.

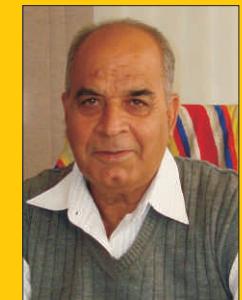
Alongside academic activities, technology fairs, college carnivals, sports summits and other such co-curricular and extra-curricular events also constitute an important part of life at AITS aimed at developing overall skills of its students. We are well equipped in every aspect to successfully meet the expectations of the industry. Aravali Education Society has optimally formulated the hardware, infrastructure and faculty so as to produce quality engineers who would provide future technology to the society.

FACILITIES

- Wi-Fi Campus
- Transportation
- Hostel
- Canteen
- Gymnasium
- Playgrounds
- Digitized Library



It is my privilege to warmly welcome you into the premises of this great institution dedicated to the cause of top-quality technical education with the motto of "taking you to tomorrow's technology". The exemplary infrastructural facilities, the team of highly qualified and dedicated faculty and the exhilarating atmosphere in the campus will surely take you to enviable heights in your capabilities and achievement.



Dr. R. K. Malkani
Director

Inside DEPARTMENTS

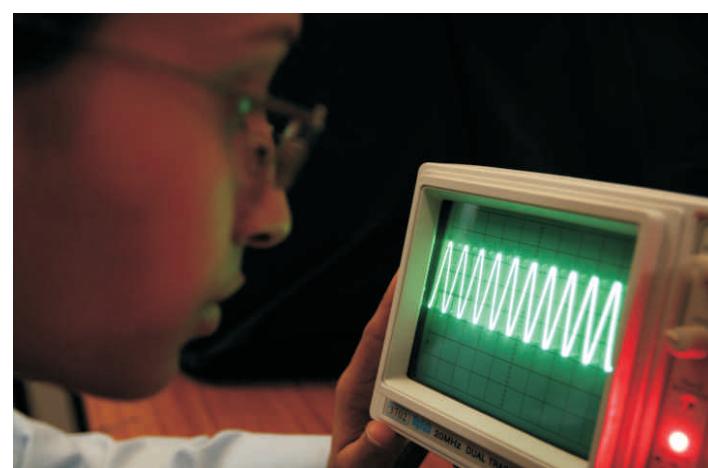
1. Department of Electronics & Communication Engineering

The Department of ECE, at AITS has a fine blend of young and dynamic faculties, and is involved in providing quality education and research in the field. The syllabi of the courses are continuously updated and the laboratories modernized to reflect the rapid changes in technology. The department offers a wide range of courses, which address all of the major subject areas underpinning the new communication era. A modern teaching is ensured to offer high quality undergraduate B.Tech. Students.

In order to cope with the vision, the Department has following well equipped, technologically advanced laboratories:

- Electronics Lab-I & Electronics Lab-II
- Digital Electronics Lab
- E.M.I. Lab
- Electronic Workshop Lab
- Microprocessor Lab
- Communication Lab
- Microwave Lab
- Electronics Design Lab
- CAD Lab
- Industrial Electronics Lab

Some of the major instruments and equipments in the Department are Digital storage oscilloscope to 100MHz (with FFT function), cathode ray oscilloscope, LCR-Q meter, digital labs, analog labs, Spectrum Analyzer, function generators, pulse and data generators, advance microprocessor & microcontrollers trainer kits, a number of analog and digital trainer kits, AM, FM, PWM, PPM, TDM/PCM, Microwave benches, communication trainer kits, FM and VCD player and many other trainer kits.



FACULTY MEMBERS

- Mr. Hemant Dhabhai
Assistant Professor (Head), Exp. - 9 Years
- Mr. Bhoopendra Sharma
Associate Professor, Exp. - 11 Years
- Mr. Aabhas Mathur
Assistant Professor, Exp. - 3 Years
- Mr. Anand Jain
Assistant Professor, Exp. - 3 Years
- Ms. Vinita Tiwari
Assistant Professor , Exp. - 3.5 Years
- Ms Naseem Qurabawala
Assistant Professor, Exp. - 2 Year
- Mr. Dharmendra Joshi
Technical Assistant, Exp. - 1 Years
- Mr. Satyanarayan Janwa
Technical Assistant , Exp. - 1.5 Years
- Ms. Vimal Mehta
Technical Assistant, Exp. - 3 Year

2. Department of Computer Engineering & IT

This programme covers a wide spectrum of topics in data communication, computer networking, operating systems, Microprocessor programming and applications, parallel

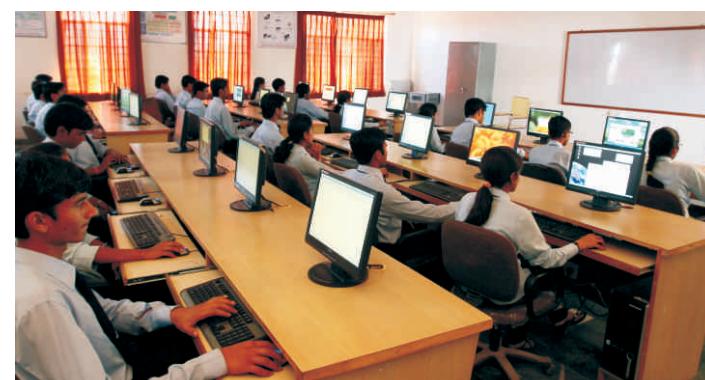
processing, Compiler design, system programming, software engineering, simulation and modeling, distributed systems, graphics and Image processing, various packages and softwares like Oracle, Java, C++, Vb.net etc. Companies where one will have placement opportunities in this area are HCL, Compaq, Microsoft, Adobe, IBM, Dnet Technologies, Sun Micro Systems, Hughes Software, TCS, Wipro, Infosys, Satyam, Oracle, NUT, Polaris, Syntel, I-Flax, Cognizant, Tec-Mahindra, 3I InfoTech, Birla Soft, HP, Matrix, Sigma Info Solutions, Info Spectrum, Net Web, Geometric, Kpit Cummins Info System Ltd. etc.



Computer Branch at AITS started in 2008. It offers four years Bachelor Degree in Computer Engineering. Computer branch is well established with modern Computer Laboratory facilities having computers available one to one per student. Internet facility is available in separate Laboratory.

Computer Engineering Laboratories:

- Computer Programming Lab
- Data Structure Lab
- Computer Graphics Lab
- Unix Shell Programming Lab
- Internet Programming Lab
- System Software Lab
- Data Base Application Lab
- Network programming Lab
- X-Windows Programming Lab



FACULTY MEMBERS

- Mr. Kailash Vadhera
Assistant Professor(Head), Exp.- 8.5 Years
- Mr. Devendra Suthar
Assistant Professor, Exp.- 4.5 Years
- Mr. Prem Kumar Verma
Assistant Professor, Exp.- 2 Years
- Mrs. Sangeeta Sharma
Assistant Professor, Exp.- 11.5 Years
- Mr. Sandeep Bordia
Assistant Professor, Exp.- 4.8 Years
- Mr. Narendra Vari
Technical Assistant, Exp.- 2.6 Years
- Mr. Nardev Singh Sarangdevot
Technical Assistant , Exp.- 03 Years
- Mr. Bhuvan Ameta
ERP Administrator, Exp.- 1 Years

3. Department of Mechanical Engineering

Mechanical engineering is one of the major activities in engineering profession and its principles are involved in the design, study, development and construction of nearly all of the physical devices and system. By emphasizing both analytical and creative methods, it gives students the broad skills they need to pursue their goals - whether that means working as an engineer, founding a company or continuing with the post graduate study and research. The department was established with the inception of the Institute in 2008 with the vision to retain our status as one of the best mechanical engineering departments and continue to play one of the foremost roles in the development of the nation.



Mechanical Engineering Laboratories:

- Engineering Drawing Lab
- Mechanical Engineering Workshop:
- Production Engineering Laboratory:
- Automobile Engineering Laboratory:
- Thermal Engineering Laboratory:
- Mechanics of Solids Laboratory:
- Fluid Mechanics and Machine Lab
- Turbo Machines Lab:
- Design of Machine Element Lab
- Heat and Mass Transfer Lab
- Engineering Drawing:
- Material science



FACULTY MEMBERS

- **Mr. Vishnu Agarwal**
Associate Professor (Head), Exp.- 9 Years
- **Mr. L. N. Barber,**
Assistant Professor, Exp.- 39 Years
- **Mr. Preetam Singh Sankhla**
Assistant Professor ,Exp. - 2 Years
- **Mr. Gaurav Purohit**
Assistant Professor ,Exp.- 3 Years
- **Mr. Sourabh Sharma**
Assistant Professor, Exp. – 3 Years
- **Mr. Prem Prakash Malviya**
Workshop Assistant, Exp.- 9 Years
- **Mr. Babu Lal Prajapat**
Workshop Assistant,Exp.- 8 Years
- **Mr. Shankar Choudhary**
Workshop Assistant,Exp.- 8 Years

4. Department of Electrical Engineering

The department has come into existence this year with the introduction of B.Tech. degree programme with a intake of 60 students. The course curriculum of Rajasthan Technical

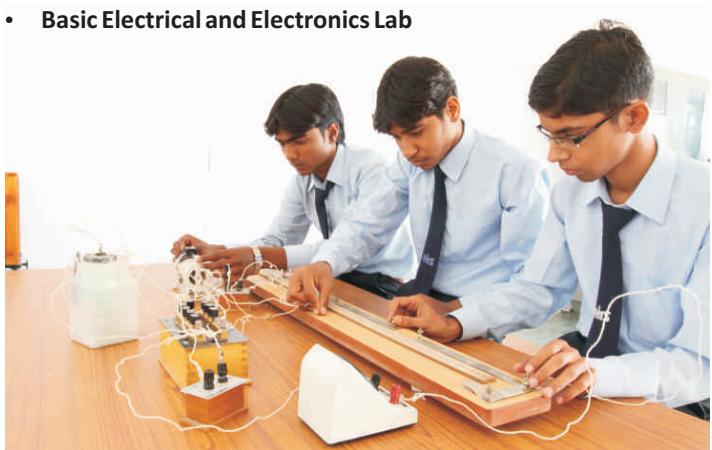


University, Kota includes latest state of art technology through core and elective courses which keep students updated with latest technical awareness and knowledge.

In the department experimental facilities including specialized hardware are available for various applications in different laboratories. The laboratories are well equipped with robotic system, industrial process fault finding simulation system, PLC system, digital power light supervisor, data logger, energy auditor, power quality analyzer and softwares like MATLAB, ORCAD, PSCAD, PSPICE etc.

Following laboratories are the strengths of the department

- **Power system Lab**
- **Power Electronics & Drive Lab**
- **Control & Instrumentation Lab**
- **Analog and Digital Electronics Lab**
- **Computational Lab**
- **Electrical Machine Lab**
- **Measurement Lab**
- **Microprocessor Lab**
- **Electric Circuits Lab**
- **Basic Electrical and Electronics Lab**



5. Department of Basic Science & Humanities

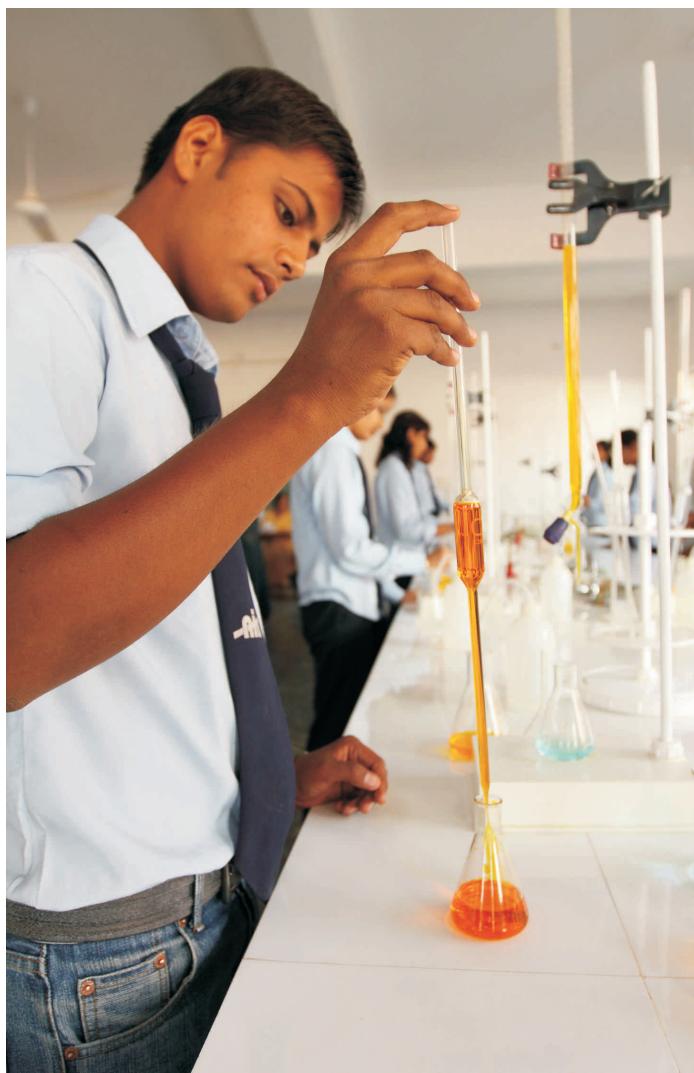
The Department of Basic Science & Humanities is sub divided into following categories:

MATHEMATICS DEPARTMENT

The mathematics department of the college is enriched with well qualified, experienced and research oriented faculty members. Various research papers have been presented in national and international journals from time to time. The faculty members have also attended and presented research papers in various conferences.

PHYSICS DEPARTMENT

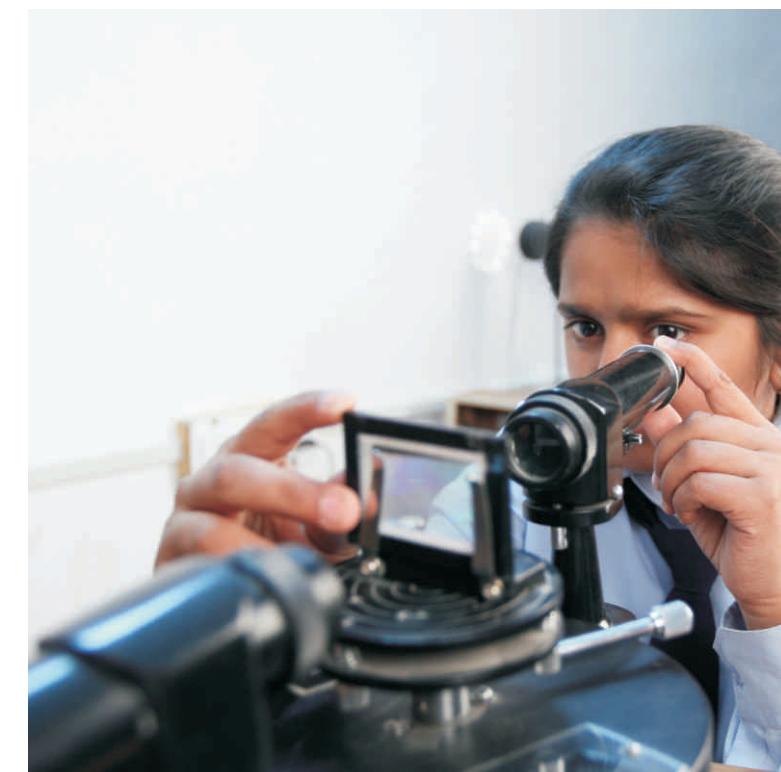
Physics is one of the basic discipline essential for all branches of engineering. The practicals performed in the laboratory are designed to fulfill the basic knowledge of Physics . The laboratory is well equipped with experiments mainly from optics and general physics.



FACULTY MEMBERS

- **Mr. Vivek Mali (Head)**
Assistant Professor (Maths), Exp. - 6 Years
- **Dr. Kiran Durgawat**
Assistant Professor (Engg. Chemistry), Exp. - 9 Years
- **Dr. Diwaker Sitha**
Assistant Professor (Engg. Chemistry), Exp. - 4 Years
- **Mrs. Veera Raykar**
Assistant Professor (Physics), Exp. - 3 Years
- **Mr. Mukesh Jat**
Assistant Professor (Maths), Exp. - 3 Years
- **Mrs. Monika Jain**
Assistant Professor (English), Exp. - 3 Years
- **Mrs. Madhu Murdia**
Assistant Professor (Humanities), Exp. -3 Years
- **Mrs. Rajesh Sharma**
Lab Assistant (Engg. Chemistry), Exp. - 2 Years

The faculty at Aravali Group of Colleges represent an eclectic mix of Industry and Academic experience; national and international experiences. We are confident to develop quality professionals and citizens capable of assisting in making India a developed nation.



CHEMISTRY DEPARTMENT

AITS can proudly boast of its well-equipped chemistry lab. Here various experiments related to pure as well as applied chemistry are undertaken by 1st year B.Tech . Students under the guidance of well qualified and experienced technical and academic staff.

ENGLISH DEPARTMENT

The department plays a major role in the growth and development of students. Personality is a charisma which when exhibited in proper way may create miracles. Moving on with the same idea, the Department of English organizes seminars on personality development under the personality development cell, where emphasis is given on speech-rhythm, managerial skills, voice modulations, interview skills and enhancing the communication skills of the students. Apart from these seminars and personality development classes, the department keeps organizing debate competitions, Quiz competitions, extempore etc to make the students competent enough to face the outer world.

The Department is having English Language Laboratory having **Globarena Software** to increase English proficiency among the students. The students make full use of this laboratory to improve their Communication skills.

WORKSHOPS & SEMINARS

[2010-11]



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These Workshops provide opportunity to the experts from industry, institutions and research organizations to come together on a common platform and exchange innovative thoughts and ideas. It is most necessary for technocrats and our students to explore the linkages between existing and emerging trends along with trust on enhancement of efficiency of existing technology.

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Two Days NATIONAL WORKSHOP

On

**"EMBEDDED SYSTEM DESIGN, SIMULATION,
MODELING AND WEB APPLICATION, DEVELOPMENT
WITH DATABASE DESIGN".**

(28-29 September, 2010)

AITS took an initiative of organizing a 2 days national workshop on "Embedded System Design, simulation, modeling and web application, development with database design".

This National workshop was scheduled for two days i.e. on September 28th & 29th, 2010 and was attended by more than 200 students.

The session of the first day was addressed by Mr. Shivanhu, Business Head, Microcell System, Noida(U.P.).

The Morning session on the next day gave insight to the electronics student into embedded system, ports, interrupts and serial communication. The Speaker of this occasion was Mr. Sagar Arora. In this session he also focused on the ILC based real time clock DC 1307 interfacing with MC5 / micro-controller.

[

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Two Days NATIONAL WORKSHOP

On

**MULTIMEDIA AND 3D ANIMATION
(21-22 May 2011)**

by : i3indya Technologies, New Delhi

Workshop (04 April,2011)

**"Practical Approach on Wireless Sensor
Networking"**

By : Mr. Bhuvanesh Mishra,
M.D., Club First Technology Solution Pvt. Ltd.,Jaipur



Workshop (22nd -23rd April,2011)

"CAD-CAM Software"

By : Mr. Harish Sharma
M.D., CAD Centre,Udaipur
Mr. Vikas Sharma
CAD Centre,Jaipur



By : Mr. Manoj Kumar, Sr. Trainer, Animation Division
Mr. Jaspreet Singh, BDM



Seminar (23rd April,2011)
"Introduction to Database, ORACLE"
By : Mr. Anurag,
Compukey Solutions, Jaipur(Raj.)



Seminar (13 April 2011)

**"Windows-8 , X-Box KINECKET Gaming
Control, Office2010"**

By : Mr. Siddarth Sharma
Ms. Pallavi Bhatt
Microsoft Student Partner

Guest Lectures 2010-11

Lectures by guest faculty play a major role in personality development and career building of students. These lectures emphasize on determining and achieving the goals. For better guidance of Students, to cope with uprising competitions and to get bright future, AITS organized following guest lectures during the session 2010-11.



"Stop Existing Start living"
(3rd Sept. 2010)

Keynote Speaker : Dr. Manisha Agrawal
Lecturer, IICC, Udaipur



"Water, Health and Environment"
(4th Sept. 2010)

Keynote Speaker : Mr. Anil Mehta
Principal, Vidyabhawan, Polytechnic College, Udaipur



"Setting and Attaining Goals: How To Act Best"
(4th Sept. 2010)

Keynote Speaker : Dr. Kaneez Fatima Sadriwala
Asst. Prof. University of Nizwa, Oman(UAE)



"A Long as a person doesn't admit he's defeated, he is not defeated - he's just a little behind, and isn't through fighting."

Dorrell Royal

"Management as a Carrer Option"
(17th Sept. 2010)

Keynote Speaker : Mr. Vinit Baya
Director, PT Education, Udaipur



"Prospects for Engineering Students in India and Abroad"
(22nd Sept. 2010)

Keynote Speaker : Mr. Nigam,
Director, NGNESYS Business Solution,
Noida



"Difference between Original Equipment Manufacturers & System Integrates"
(20th Sept. 2010)

Keynote Speaker : Mr. Rahul Sharma
Representative IBM



"Personality Development: Focus on Mind, Art of Mind Control, Building Self Confidence, Handling Competition"
(22nd Oct. 2010)

Keynote Speaker : Mr. Arjun Das
Mr. Rasraj Krishna Das
Akshay Patra foundation, Jaipur



"Self empowerment for Personal Effectiveness"
(23rd-24th Sept. 2010)

Keynote Speaker : Mr. Himanshu Buch
Director, Zen Institute of Mgt,
Vadodra (Gujrat)



"Biometrics : Computer Assisted Personal Identification"
(26th March, 2011)

Keynote Speaker : Dr. Debashis Ghosh
Assoc. Prof., Dept. of Electronics &
Computer Engg., IIT Roorkee



"Industry Expectation from Young Engineers"
(29th March 2011)

Keynote Speaker : Mr. C. K. Podder
Ex. Director,
Neelachal Ispat Nigam Ltd., Bhuvneshwar



Celebrations

There's no such thing as not enough time if you're doing what you want to do.

- Robert Half



FRESHERS' PARTY

On October 29th, AITS organized a Freshers' Party for the 3rd batch of B.Tech. students. All the students of 1st year and 2nd year participated in the program with great enthusiasm.

Chief Guest : Shri Shailendra Somani
Director, MDS Senior Secondary School, Udaipur

Mrs. Pallavi Bhatt,
Principal, Indo American Public School, Udaipur.

Special Guest : Shri Ajat Shatru
Famous Poetrian, Udaipur

The main attraction of the program was the Fashion Show. The judges of the show were Mrs. Arti Jain, Director, SRG group of Companies and Mrs. Priya Kataria, C.A.

Ms. Aishwarya Deep (1st Sem., ECE) and **Mr. Yash Goyal** (1st Sem., ME) became Miss Fresher and Mr. Fresher of AITS respectively.

Beside Mr. and Miss Fresher Award **Ms. Divya Bagri** (1st Sem, EE) and **Sanket Pandya** (1st Sem., ECE) won the Runner-up Award. **Anshul Garg** (1st Sem., ECE) and **Yash Goyal** (1st Sem., ECE) were chosen for Best Smile Award. Prizes for Best Dress, Best Dance performance etc. were also given.



AROMA - 2011

Aravali Institute Of Technical Studies celebrated its 2nd Annual function AROMA 2011 on 2nd May 2011 at MLSU auditorium.

The function commenced with the lamp lighting by the

Chief guest : Shri Raghuvir Singh Meena

Hon'ble Member of Parliament, Udaipur

Special Guests : Shri Kailash Sodani

Prof. College of Commerce, MLSU Udaipur

Shri N.L. Khetan

Secretary, Aroma Education Society

Shri Amit Agrawal

Finance Secretary, Aroma Education Society

Dr. Ajay Sharma

Prof., CTAE, Udaipur



The welcome speech was given by Mrs. Sangeeta Sharma (Asst. Profesor Computer Science). Chief Guest addressed the August gathering. He is of the opinion that alongwith Academic activities, Co-curricular activities are also important for the students, as such activities help in their overall development and help the students become genius. He expressed satisfaction that AITS is following these things.

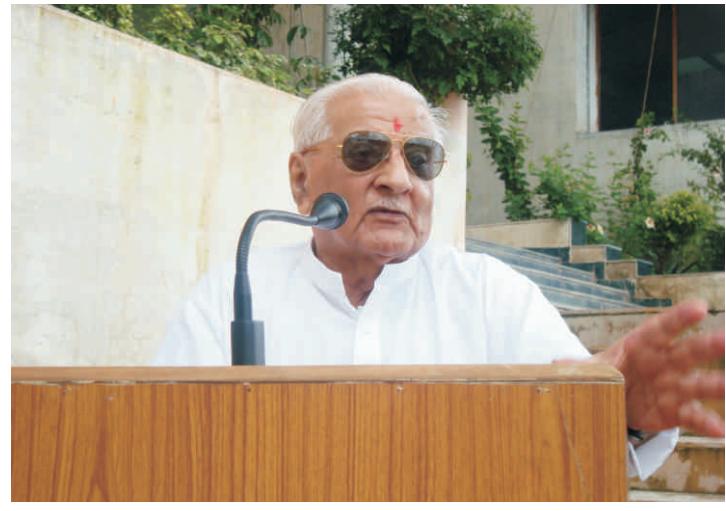
The annual report was presented by Mr. Hemant Dhabhai (ADSW & H.O.D. Electronics & Communication).

The speeches were followed by prize distribution. The prizes were distributed in three categories, Academic prizes, Sports prizes and prizes to Meritorius students.

The function closed with a vote of thanks by Mr. Bhoopendra Sharma (Associate Prof. ECE Dept).



Celebrations



TEACHERS' DAY (4th Sept., 2010)

Chief Guest: Shri Anil Mehta

Principal, Vidhya Bhawan Polytechnic College, Udaipur.

Teacher's day was celebrated in the AITS campus on 4th Sep. 2010. Students as well as teachers equally participated in the program. Guest lecture on 'Water Health and Environment' was also organized on the same day. The lecture was delivered by the chief guest of the program Mr. Anil Mehta, Principal of Vidya Bhawan Poly. College, Udaipur.

The program started with the Saraswati Vandana followed by Lamp Lighting by the guest and welcome of the chief guest. It was followed by Teachers' Day Celebration organized by the students. A speech on Teachers' day was given by Ms. Ekta Agrawal, student of 3rd year E.C.E. followed by a poem on teacher's day by Miss Shivani Bisht, 3rd year C.S.

After that ,all the teaching and Non-teaching faculty were honored by the students in a traditional manner. The program was compered by Miss Rini Abraham, 2nd year C.S. and Mr.Gaurav Sharma, 2nd year M.E.



INDEPENDENCE DAY

(15th August, 2010)

Chief Guest: Shri Bhanu Kumar Shastri

Ex. M.P. & president of Khadi Gram Udyog, Govt. of Rajasthan

The 64th Independence Day of India was celebrated by AITS on 15th Aug 2010. The Independence Day was celebrated in a very pompous and splendid way at the AITS campus. The National Flag was hoisted by the Chief Guest Shri Bhanu Kumar Shastri. Addressing the students, the chief guest mentioned that India is a role model for other countries especially for its Non-Alignment policy. He also shared his experiences related to the history of Independence.



62nd Republic Day Celebration (26th January, 2011)

62nd Republic day was celebrated in the AITS Campus with great verve & spirit. **Mr. Ashok Kumar Gupta**, Chief Manager, Punjab National Bank (Chetak Circle Branch, Udaipur) was the Chief Guest. The other dignitaries present were Mr. N.L. Khetan, (Secretary, Aroma Education Society), Mr. Amit Agrawal (Finance Secretary, Aroma Education Society), Dr. R. K. Malkani, (Director, AITS) and Mr. Nitin Bhardwaj (Director, AIMS).

Dr. R. K. Malkani delivered the welcome speech. This was followed by a number of patriotic songs, poems and speeches by students from AITS and Aravali Teacher's training college.

Mr. Ashok Gupta, the Chief Guest while speaking on the occasion, said that he was impressed by the performance of the students. He extolled the management's efforts to nurture and nourish the students with value based education for their all round development. He was of the opinion that the Youth is the future of the nation and their progress is the progress of the nation. They should pursue their goals sincerely so as to bring prosperity to the nation.

Mr. Amit Agrawal, while presiding over the function gave best wishes to the students & the staff on the Republic Day.

The function closed with the Vote of Thanks by Mr. Bhoopendra Sharma, Associate Professor, Department of Electronics & Communication Engineering.



What is 5G Technology

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

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 make 5G mobile technology most powerful and in huge demand in near future.

5G technology 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 broadcast within latest mobile operating system. [5G technology](#) has a bright future because it can handle best technologies and offer priceless 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 transporter class gateway with unparalleled consistency.
- The traffic statistics by 5G technology makes it more accurate.
- 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 effected. 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

Bhavesh Jain
II year (ECE)



Time travel is no longer regarded as strictly science fiction. For years the concept of time travel has been the topic of science fiction novels and movies, and has been pondered by great scientists throughout history. Einstein's theories of general and special relativity can be used to actually prove that time travel is possible. Government research experiments have yielded experimental data that conclusively illustrate that fast moving aircraft have traveled into the future. This phenomenon is due to the principal of time dilation, which states that bodies moving at high velocities experience a time that ticks slower than the time measured at zero velocity.

"I do believe in time travel. Time travel to the future. Time flows like a river and it seems as if each of us is carried relentlessly along by time's current. But time is like a river in another way. It flows at different speeds in different places and that is the key to travelling into the future. This idea was first proposed by Albert Einstein over 100 years ago."

- Stephen Hawking

Time Dilation

Craft traveling at this speed will take us near the speed of light, where time actually slows down. This is what's known as time dilation. Imagine that a rocket ship takes off from earth and approaches the speed of light. If we were to watch it from earth with a very powerful telescope as it traveled away from us, we would see everyone inside the ship as being frozen in time. To us their time would slow down, but to them nothing would change. Your entire life thus forms a sort of twisting, turning worm in space time! The tip of the worm's tail would be your birth and its head is the event of

Time Travels

Wormholes are holes in the fabric of four dimensional space-time, that are connected, but which originate at different points in space and at different times. They provide a quick path between two different locations in space and time. This is the four dimensional equivalent of pinching two pieces of a folded sheet of paper together to make contact across the gap. Distortions in space cause the points separated by the gap to bulge out and connect. This forms a wormhole through which something could instantaneously travel to a far away place and time.

Time dilation is the easiest method because it merely requires high velocity motion to experience time travel. 3 Phenomena known as wormholes and closed timelike curves are possible means of time travel into the future

and the past. 4 Traveling into the past is a task which is much more difficult however. Its theory involves complicated scenarios of tears in four dimensional space-time, energy equivalent to that of an exploding star, and traveling near the speed of light. Yet even these hindrances can be explained away! If the multiverse concept is reality, then most present ideas of time travel are based on a false reality



Sohail Quazi
II year (ECE)

Literary Competitions (2010-11)

Debate Competition

(15th April 2011)

Winner - Purohit Atul (II Year, ECE)

Runner - Jubin Jain (III Year, ECE)



Poetry Competition

(15th April 2011)

Winner - Nidhi Salawat (II Year, CSE)

Runner - Manish Mali (III Year, CSE) & Prembhushan Trivedi (III Year, ECE)

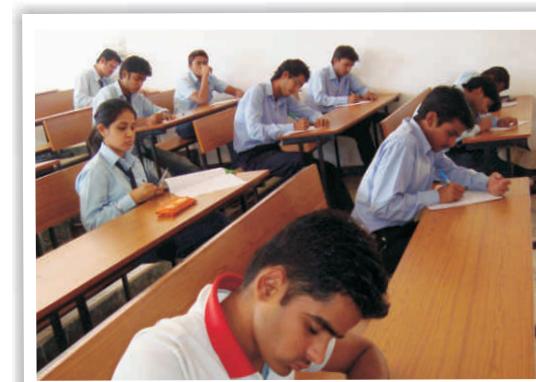


Essay (English) Competition

(23rd April 2011)

Winner - Pipaliya Prateek(I Year, ECE)

Runner - Prembhushan Trivedi (III Year, ECE) & Aishwarya Deep (I Year, ECE)

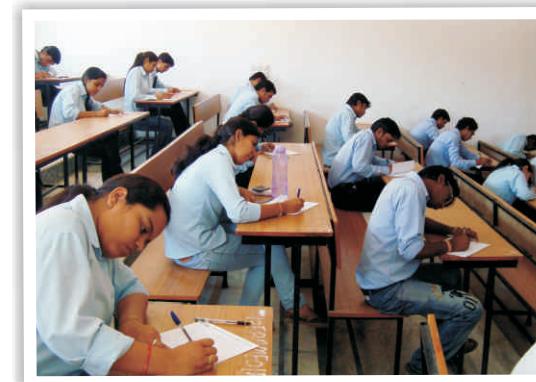


Essay (Hindi) Competition

(23rd April 2011)

Winner - Manish Mali (III Year, CSE)

Runner - Nidhi Salawat(II Year, CSE)



Imagination and Creativity of the students of AITS illustrates that the budding engineers posses a multi-faceted personality not confined to technical knowledge.

POSTER COMPETITION

Date:16th april,2011

Venue: Rajeev Gandhi Park, Near Fateh Sagar,Udaipur

A poster competition was held on 16th April,2011 at Rajeev Gandhi Park, Near Fateh Sagar,Udaipur .

Students chose the various topics of contemporary relevance like global warming, terrorism, swine flu, environmental pollution and hazards of smoking and drinking.

All the participants put in their best to show their creativity and the result was so amazing that it was difficult to choose the best three out of them. The competition was coordinated by Dr. Diwakar Sitha and the posters were judged by Dr. R. K. Malkani, Director AITS, Mr. Hemant Dhabhai and Mr. Bhoopendra Sharma.

Winner :

Arjun Kumawat (I Year, EE)

Runner-up -

Nidhi Shrivastava(II Year, ECE)
& Jagrati Rathore (II Year, CSE)



Photo Gallary



Academic Lectures 2010-11

AITs realizes its responsibility towards academic needs of the students. We are committed to provide latest equipments, Study materials, other practical materials for projects and the additional resources which are required for Advance Education.

Through periodic Academic Lectures and Technical programs as an integral part of the course, the students are equipped with technical knowledge, critical thinking skills and creativity to excel in the engineering profession.

Several academic Lectures were organized during the Session 2010-11 as mentioned below-



Mr. Navneet Agarwal



Mr. Pankaj Gupta



Mr. Rahul Garg



"Microwave Engg."

(For 5th Sem, ECE)
Mr. Navneet Agrawal
Asstt. Professor, CTAE, Udaipur

"Biomedical Instrumentation"

(For 6th Sem, ECE)
Mr. Dwijendra Arya,
Associate professor, IET, Alwar

"Heat Transfer & Thermo Dynamics"

(For 6th Sem, ME)
Mr. Pankaj Gupta
Asstt. Professor,
Engineering College, Bikaner

"Digital Signal Processing"

(For 6th Sem, IT)
Mr. Tejpal Singh
Associate Prof., D.R.I.T., Jaipur

"Coherence, Optical Physics, LASER"

(For 2nd Sem)
Dr. Y.N. Singh
Asso. Professor, CET, Bikaner

"Industrial Electronics"

(For 6th Sem, ECE)
Mr. Vinod Yadav
Asst. Professor, Electrical Dept.,
CTAE, Udaipur

"Microprocessor & Interface"

(For 4th Sem, CS)
Mr. Ravindra Chouhan
Asst. Professor(Head), ECE Dept.,
WEC, Ajmer

"Electro-Magnetic Field Theory"

(For 4th Sem, ECE)
Mr. Rahul Garg
Assoc. Professor(Head), EE Dept.,

WEC, Ajmer

"Microprocessor & Microcontroller"
(For 6th Sem, ECE)
Mr. Ravindra Chouhan
Asst. Professor(Head), ECE Dept.,
WEC, Ajmer

"Machining & machine Tool & design of machine element"

(For 4th Sem, ME)
Mr. Pankaj Gupta
Assoc. Professor, Govt. Engg. College, Bikaner

"Machine Design"

(For 6th Sem, ME)
Mr. Pankaj Gupta
Assoc. Professor, Govt. Engg. College, Bikaner

"Microwave Devices"

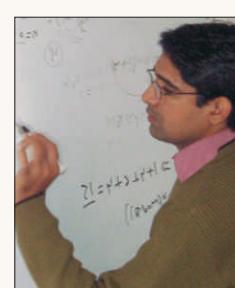
(For 6th Sem, ECE)
Mr. Navneet Agarwal
Asst. Professor, ECE Dept., CTAE, Udaipur

"Mechanical Vibration"

(For 6th Sem, ECE)
Dr. S. P. Harha
IIT Roorkee (Mech. Dept.)

"Unix Shell Programming"

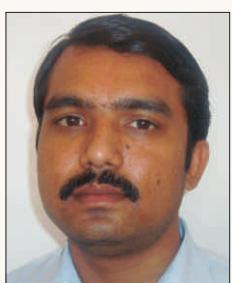
(For 6th Sem, CS, IT, ECE)
Mr. R. L. Chouhan,
Asst. Professor,
Govt. Engg. College, Bikaner



Mr. Tejpal Singh



Mr. Y.N. Singh



Mr. R.L. Chouhan



Mr. Ravindra Chouhan

Industrial Visits

R Studies in any technical field require practical training which is attained by industrial visit. It is an integral part of the engineering course. This industrial visit provides an insight on how a technology is adapted and implemented in an industry and also gives useful information related to the course which cannot be visualized in lectures.

"

Industrial Visit :- HZL, Debari,

(For 2nd Year, M.E.)
12/11/10

Coordinator :
Mr. Gaurav Purohit
Mr. Pritam Singh



Scientific Mes - Technik Pvt. Ltd, Indore

Coordinator :
Mr. Rajeshwar
Mr. Puneet Gupta

Industrial Visit to

19th Oct, 2010

BSNL, Udaipur

(For 3rd Year, ECE)

Coordinator :
Mr. Anand Jain



"Akshay Patra foundation, Jaipur"

(For 1st Year)

Coordinator :
Mr. Gaurav Purohi
Mr. Saurabh Sharma
Mrs. Keerti Singhvi



Mount Abu Tour

6th Sem,CS,IT
24 -25 April 2011

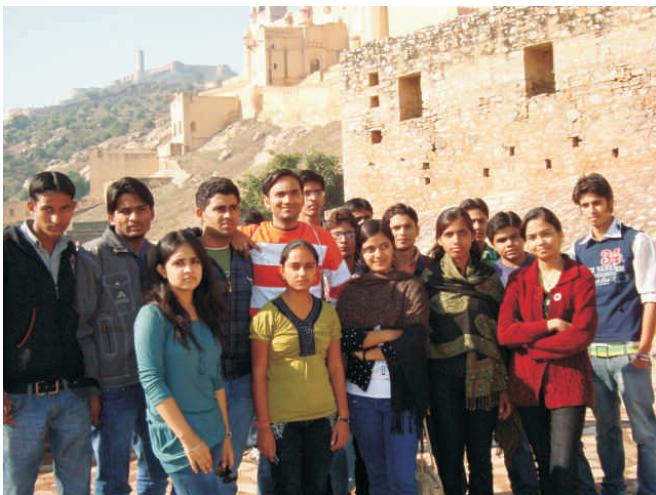
Co-ordinator :
Mr. Sandeep Bordia
Mr. Prem Kumar Verma



Mount Abu Tour

6th Sem, ME
26-27 April, 2011

Co-ordinator :
Mr. Gaurav Purohit
Mr. Preetam Singh Sankhala



Faculty Corner

CAREER DEVELOPMENT

Before getting into how to handle pressure, let's first talk about what it is. What exactly is pressure and how does it play a part in whether or not you will achieve your goals? Pressure, in terms of accomplishing goals, is the feeling you get the moment you set a deadline on your goals. As you may already know, a goal is a dream with a deadline. A dream without a deadline is just that, a dream, it'll never happen. So why is putting pressure on yourself a good thing? It's good because it forces you to act now, rather than later.

Think about those situations where you had to perform under pressure. The only reason you felt that pressure was

“*Think about those situations where you had to perform under pressure. The only reason you felt that pressure was because you had to do something within a certain amount of time.*

because you had to do something within a certain amount of time. The basketball player who is under pressure because the time is running down and he has to make the final basket in order to win the game feels the pressure because he has to act right now, not later. If he had all day to take the shot, there wouldn't be any pressure. Pressure causes us to move.

Of course, pressure could also cause people to freeze up. Some people are not able to deal with pressure. When it comes down to it, they just don't have what it takes. Or do they? Pressure is something that you can handle if you know what to do. If you think about it, when you freeze up under pressure, it usually means that you don't have confidence in performing the task at hand in the amount of time that you're given to perform it. In order to deal with pressure, there is one thing you need to do. You need to get confident.

The way you have confidence is simply by being prepared. When you have done something over and over again, your level of belief in yourself rises. As your confidence rises, your ability to deal with pressure will also rise. Now, this doesn't mean you won't feel any pressure. It just means you'll be able to act despite of the pressure. Once you get used to working under pressure, you may start to actually like it because it helps you take immediate action.

I put myself under pressure every time I set a goal because I know if I don't, I will tend to delay taking the necessary actions in order to accomplish the goal. Usually setting a deadline is enough to put enough pressure on me to make it

work. Sometimes though, I find that I need to "up the ante", meaning put more at risk in order to increase the pressure, which causes me to take immediate action. The reason I am able to do this is because I am used to

working under these conditions, and the reason for that is because I've done this so many times.

So dealing with pressure comes down to building confidence in yourself and your abilities through lots of practice performing under pressure. Put pressure on yourself to perform at a high level because when the time comes to perform on the public stage, you'll be able to feed from it instead of freeze from it.



Mrs. Naseem Quarabwala
Asstt. Professor, Deptt. Of ECE



Developing the skill of effective communication can do wonders for the quality of your life and your relationships. One of the major causes of arguments and disagreements is not being able to convey the right message. Far too many marriages have ended in divorce due to miscommunication. If you look at the business world, lack of proper communication can cause all sorts of problems from loss of sales, loss of jobs, to the downfall of companies. Let's explore some ways on how you can improve your communication skills in order to better send your message to the other person.

So what is effective communication anyway? Simply put, it is the condition where a receiver gets the message from the sender in exactly the way the sender has intended it. In other words, if you tell someone your phone number and they get it correctly, you have succeeded. If however, you give your phone number but the other person gets it wrong, then there is a problem. It can be the sender's fault, the receiver's fault, or both. These misinterpretations of the message are called barriers.

So what are some common barriers of effective communication? One common problem is that the receiver doesn't want to listen to the sender. You might have experienced this. You are trying to tell someone something and they just won't listen to you. It can be because they aren't focused, or they are upset and don't want to bother, or they just don't care. Another common barrier has to do with the sender not conveying the message clearly. This can be due to things like not being able to come up with the right words, giving a bad example, or simply not understanding the message enough to explain it to the receiver.

“*I'm sure you have experienced this. You are trying to tell someone something and they just won't listen to you.*

understood the message in your own words. The second thing is that the other person will know that you are truly listening.

Constant communication and refining the quality and effectiveness of the communication can do wonders for a relationship. It might not be the easiest thing to do but since having effective communication is so important, you need to spend the time to develop that skill as well as get your partner to learn it with you.



Mrs. Monika Jain,
Asst. Professor (English),
Dept. Of Basic Science & Humanities



How to develop Communication Skills

Having effective communication skills can be critical if you are talking about business. Let's say your boss asks you to do something and you end up doing the wrong thing. Whether it's the boss's fault for not giving you clear instructions or you not receiving the message correctly, the bottom line is that the job wasn't done. This can cost the company money. This is why having effective business communications is so vital whether it's verbal or written. Miscommunication can cost a lot of money. Taking time to work on effective communication in the workplace will not only help the business run more smoothly but it will also prevent resentments and arguments.

When communicating a message to the other person, one thing you can do is to make sure the other person understands your message. Don't just assume that they do, make sure of it especially if it's something really important. You can do this simply by asking them to explain what you just told them. Just make sure you do it in a nice way.

As the receiver or listener, it's a good practice to paraphrase what the other person just told you. This will accomplish two things. The first thing is that you will make sure you