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**PLACEMENTS ARE....**
- Wills Life Style (New Delhi)
- Collection (Pantaloons, Mumbai)
- Reliance Retail (Kashmir
- Images Publication (New Delhi)
- GAP Inc. (New Delhi)
- Texpro Syndicate (Tirupur)
- Leela Lace (Mumbai)
- Pratibha Syntex (Ran)

**ACHIEVEMENTS**
- "Sharat Yuva Ratana" Design Award From Aditya Birla Group to students of Architecture in 2007
- A student of Fashion Designing selected in "Design Hut 2006".
- A student of Interior Designing, Megha Pujara, presented a research paper to S.N.D.T. University "Avishkar 2008" and was selected as a finalist.

**COURSES WE OFFER**

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Affiliated to DAVV, Indore
Eligibility: 10+2 with commerce or science (Free Practical Training of Tally & VAT)
3 Yrs.

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Recognised by Indian Nursing Council] New Delhi & Govt. of M.P. Affiliated to DAVV, Indore & Registered to Mahakshashah Nursing Registration Council. Eligibility: 10+2 Physics, Chemistry Biology & English (50% aggregate)
5 yrs.

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Affiliated to SNDT Women's University, Mumbai
Eligibility: Graduate (any stream)
No Entrance Test
1 Year

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3 Yrs.

**B.SC. IN INTERIOR DESIGN & CERTIFICATE COURSE IN INTERIOR DESIGN**
Affiliated to SNDT Women's University, Mumbai
Eligibility: 10+2 (any stream)
3 Yrs./yr.

**B.SC. IN FASHION DESIGN & CERTIFICATE COURSE IN FASHION DESIGN**
Affiliated to SNDT Women's University, Mumbai
Eligibility: 10+2 (any stream)
3 Yrs./yr.

**DIPLOMA IN TEXTILE DESIGNING**
Affiliated to SNDT Women's University, Mumbai
Eligibility: 10+2 (any stream)
1 Year

**SDPS WOMEN'S COLLEGE**
(SMT. DHAIRYA PRABHADVRI SOJATIA WOMEN'S COLLEGE)
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- City Office: 6, Sneh Nagar, Sapna Sangeeta Road, Indore - 452 001 Ph.: 0731-2446611, 4094284
- Fax: 0731-2474722, 2474733 Email: info@sdpsindia.net, Website: www.sdpsindia.net
From the Desk of the Chairman

Why Integrated Views on Education are so Indispensable?

The pursuit for ideal manifestation of education is an unrelenting task and its promotion in true sagacity needs the adoption of a multi-pronged strategy. In view of this notion the most felt needs like technical and scientific orientation, behavioural and information inputs that account to real education are shunting the educational system to take on the integrated methods of imparting knowledge to the students. From the above perspective, although advancement in Acropolis has taken place to a much appreciable extent in the past four years placing the institution on 5th position in the state, but as a mentor I would like to surmount the best educational system that is globally acknowledged. In this quest, what distinguishes a top performer from an average performer is a set of quality policies that need to be developed. Envisaging the above needs, we in all our educational institutions at Indore and Bhopal have designed a broad framework “Academic Accolades in Acropolis (AAA) 2009-10”, which acts as a road map for the complete development of the institutions in multifaceted fields. The recommendations of the AAA panel members help me in updating and adding new dimensions to research, teaching, trainings, and other crucial issues pertaining to excellence in education.

Besides academics, the institute has recently launched Entrepreneurship Development Cell to guide and line up the students to necessary information related to infrastructural and loan facilities needed for launching the ventures and establishing their own enterprises. Information related to the liaison with government agencies, identification of opportunities, inputs related to legal aspects, factory act, labour laws, environment related issues and other statutory requirements will be provided in the campus to the targeted students as an additional facility. Secondly, to enhance the quality of learning, under a special scheme the institute has recently provided laptops with high configuration to the students. By availing all these amenities undauntedly the staff and students are able to march on the educational ramp of high standard, and I feel elated when I contemplate over the young scholars of Acropolis executing the research activities so proficiently on the global podium.

Gaurav Sojatia
From the Desk of the Editor

Effort Conquers Distance

"Wisdom doesn’t necessarily come with age. Nothing does - except wrinkles. It's true, some wines improve with age, but only if the grapes were good in the first place."

As and when I reflect on my roles as an editor and a teacher I get struck by the rigmarole and the uniqueness of my situation which takes large percentage of time in providing guidance to students summoned from homo and heterogeneous groups. More than ever, working in an ingenious or non-traditional setup sometimes depletes the functioning, but at the end of the day indubitably it's very satisfying feeling. In the midst of all this variety this newsletter evolves as an echo that reaches over 2000 readers, thus conquering the distance through efforts.

Secondly in the field of academics, with the BE, MCA, MBA, Commerce and Pharmacy courses being so intensive, and academic schedule so hectic and frantic, staff and students seem lost in their own academic turf and find hardly any time to interact with other disciplines. A need for a single source of comprehensive information about all the activities going on in the institute was felt in the very infant stage and the thought of publishing a newsletter sprouted in the year 2006.

I am happy for in the course of time it transformed into an affluent epistle and is released every quarterly to proliferate the scholarly knowledge of the students and the faculty members, which definitely is a blend of youth and experience. The Chronicle focuses on the current status, future possible developments and the participation of students and faculty members in the developmental programmes. It is also envisaged as a platform for highlighting scientific and technological innovations thus reflecting the legacies of AITRians in different fields.

Apart from these internal affairs, in the near future, the volume shall also comprise the most treasured messages of the high status overseers of the various esteemed companies and the articles of radiant alumni of Acro squadron who are fit to serve the nation and the humanity at large.

Dr. Anita Thakur
Republic Day Celebration

The institute celebrated the Republic day on 26th January 09. The Chief Guest Shri. S. K. Vashisht, Retd. Commissioner hoisted the flag on the ramparts of the institution and addressed the audience on the relevance of this solemn occasion in the educational turf. His clarion call on preserving the ethics and values pervaded new vigor in the youth and experienced alike. As a customary the institute felicitated the meritorious students and scholarship of Rs. 6000/- each was awarded to 16 students from BE, MCA and MBA streams. As a token of encouragement, financial support of Rs. 8000/- each was also extended to 17 students from various streams.

ISO - 9001 - 2008 Certified:
The Acropolis Institute of Technology and Research, Indore is now an ISO certified institute. Prof. S.K. Sohani, Dean -Planning & HOD - Civil Engg., along with his dextrous and agile team members, successfully accomplished the task of getting the institute certified by the ISO in the month of February 2009.

AITR - An International Conference Affiliate

Acropolis Institute of Technology and Research was one the conference affiliates for the "International Conference on Technology and Business Management" organized by Al Ghurair University, Dubai, UAE, held during March 29- April 01, 2009. Dr Anand Sapre, Director - FMS attended the conference. Dr Sapre chaired a session, Strategy - I, and also presented a technical paper.

The Summer / Winter School Events Organized / Attended: Guest Lectures/Seminars/Workshops

Expert Lectures on "Energy, Environment, Ecology & Society"

Dept. of Civil Engineering, AITR, organized a series of expert lectures for the students of BE III Semester on "Energy, Environment, Ecology & Society" on 12, 14 and 17 November 08. Prof. Sihorewala, Dept. of Civil Engineering, IPS Academy, Indore delivered the lectures which benefitted more than 400 students.

Lecture on "Survival of the Fittest"- Engineering

For facing the future challenges and leveraging the vast employment potential, the institute organized a lecture on "Survival of the Fittest" for the I yr. BE students on 8 December, 2008 in the MCA Seminar Hall. Mr. Abhishek Mahanty, member of Architecture Solutions Team, Sun Microsystems, conducted the session. Mr. Mahanty is a technical consultant on e-Governance projects and is also involved in Java evangelism with academic institutions, ISVs and the Government of India. The talk was a joint effort by NIIT, Bhopal & SUN MICROSYSTEMS LTD., Delhi. Prof. S.K. Sohani, Dean -Planning & HOD - Dept. of Civil Engg., has taken immense interest in arranging this lecture.
Lecture Series "Share My Experience" - FMS

Acropolis Institute of Management & Research organized an assortment of Guest Lectures on "Share My Experience". As a part of this series, the Institute invited Mr. Shailesh S. Danani, President, Omega Rubber Industries, Indore, on 5th January 09, for interactive discourse with the students on "Innovation in Business Process". Mr. Danani discussed the importance of Creativity & Innovation in today's competitive set-up and suggested some measures for the improvement in Product & Process. Relating it with Charles Darwin's theory 'Survival of the Fittest', he emphasized the need to continuously innovate or else face exit. Dr. Anand Sapre, Director, Acropolis Institute of Management & Research, Indore was highly indebted to Mr. Shailesh S. Danani for the highly informative and productive lecture on a global issue.

Lecture Series "Share My Experience" - Commerce

In order to add practical value to the curriculum and to enhance the computer based skills the students of Commerce and BCA were imparted practical knowledge of MS Excel by expert speaker Mr. Arvind Chawla, Financial Chartered Analyst and CS. Mr. Chawla shared his experience and also attended the queries of the students. Prof. N.K. Jain, Principal, AIMSR, was highly indebted to Mr. Chawla for sharing his experience with the students.

Lecture on "Quality Education" - Commerce

In continuation with the lecture series on "Share My Experience" the Institute organized a lecture of Mr. Tarun Mahajan, FCA, on 03 March, 2009. The thought provoking session conducted by Mr. Mahajan helped the students to understand the shifting trends of the market.

A Lecture on "Trends in Share Market" - Commerce

To appendage the theoretical knowledge on 'Shares' and to understand its working, the students of Commerce stream were taken to Rajinica Shares Terminal, Indore where they witnessed the practical applicability of shares. The expert, Mr. Tapan Gangwal shared his experience with the students and acquainted them with the various conditions allied to this field.
Lecture on "Seminal Techniques involved in making a Movie" - Commerce

To ignite the creative skills and for all round development of the students, the institute organized a lecture in which the students learned various techniques of making a movie. Mr. Rochak Shrivastava, an expert from Samarth Institute demonstrated the techniques applied in "Lagaan" movie. The objective was to enable the students face the real life struggle through the lessons of real life.

Mr. Shrivastav demonstrating the movie "Lagaan".

Lecture on "Personality Development" - Commerce

For the all round development of the students and to face the future challenges, a lecture on personality development and corporate trends was organized for the Commerce students. Mr. Elmar Jadhav, Director T&PAITR, delivered the lecture and shared his stimulating know-how skills of diverse fields.

Ms Elmar Jadhav sharing his vocational savvy.

Work Shop Organized on "Recent Trends in Research" - Engineering

A one day workshop was organized by Comp. Science Department on "Recent Trends in Research" on 2nd March 2009. The technical sessions were conducted on "Recent Trends & Techniques in Virtual Instrumentation" by Dr. Chaturi Singh, Senior Research Scientist, IIT Kanpur.

The sessions were also conducted by Prof. S. Narote, Pune University, Pune, on "Iris Recognition" and "Biometrics". Prof. Narote concluded that biometric system is a pattern recognition system that operates by acquiring biometric data from an individual, extracting a feature set from the data acquired, and comparing this feature set against the template set stored in the database. The interactive sessions unfolded many recent developments in Biometrics and its further scope.
Workshops Attended - Engineering

Mr. Shubham Joshi and Ms. Sarita More attended a workshop on "Recent Trends and Techniques in Data mining and Warehousing" held at UVPCE, Kherva, Gujarat between 2nd - 6th March 2009.

Mr. Gaurav Chaitanya, Lecturer, Dept. of Electronics, attended a workshop on "Advanced Computer Networks" from 24th to 27th February '09 at Sushila Devi Bansal College of Technology, Indore.

Mr. Gaurav Chaitanya, Lecturer, Dept. of Electronics, attended faculty development program at Sanghvi Institute of Mgmt. & Science on 4th and 5th May 2009 on advanced techniques in designing "Antenna and Microwave" organized by NIT Designs, Pune.

Workshop Attended - FCA

Ms. Renu Kabra attended 3 days FDP on "Computer Networks" held at Sushila Devi Bansal college of Technology between 25th Feb. 09 to 27th Feb. 09.

Workshop Attended - FMS

Prof. Vivek Sapru & Prof. Vishal Geete, Faculty - FMS, attended 5 days workshop on "Foundation Course on Entrepreneurship" held between 22nd June to 26th June 09 at IPS, Indore.

Ms. Vinita Choure, Librarian - FMS attended a workshop on "Society for Information Science" on 5th Dec. 08 at IM, Indore.

Ms. Vinata Choure, Librarian - FMS, attended workshop on "Role of Librarian in 21st Century" on 6th Dec. 08 at IM, Indore.

Training Sessions Conducted - FMS

*Dr. V. D. Jha*, conducted a technical session in one of the workshops on "RM at Dept. of Business Administration", held at Faculty of Management, Bareilly, on 20th February 09.

*Prof. PK. Banerjee* conducted 5 days Faculty Development Program in Acropolis Institute of Technology & Research, Indore from 22nd to 26th June'09 on Effective Teaching, Communication Skills, Confidence Building, Creativity, Motivation, Leadership Skills, and Self Development.

*Prof. Vivek Sapru* conducted a training session on "Fleet Management & Convoy Management and Grievance Redressal" at Police Training College, Indore, on 28th & 29th April 09.

Training Programs Organized - Engineering

"Training on "Electronics Circuit Design and utility of Software Tool: MATLAB"

In order to acquaint the students with the current computing tools, the department of Electronics organized a one day training programme on "Electronics circuit design and utility of software tool: MATLAB" on 9th April 2009 for the faculty members, supporting staff and students of EC and EI. Prof. Tapan Mukherjee - Director Printronics Pvt. Ltd., Prof. Sumit Katiyal, Prof. & Head - School of Electronics DAVV Indore and Prof. Manish Sharma, Prof. & Head - Dept. of Electronics, AITR, Indore conducted the technical sessions. Prof. Manish Sharma was the coordinator of the event.

"Training on "Automobile - Maintenance & Environment Protection"

A two day training programme on "Automobile - Maintenance and Environment Protection" was organized by AITR in association with Eicher Motors, Indore and Hubert Ebner India Pvt. Ltd., Bombay on 10th and 11th January 09 in the college campus. Shri. Hitesh Bhatt, Senior Trainer Hubert Ebner India Pvt. Ltd conducted the training programme for the drivers and conductors of Acropolis. Several tips were imparted for safe transportation, easy maintenance and environment protection. Shri Ravindra Sharma, Deputy Manager and Shri. Prashant Khedkar Asst. Manager of Eicher Motors were also present for sharing their views on the subject. Dr M.D. Agrawal, Principal, AITR and Dr. Anand Sapre, Director - FMS distributed the certificatess to all the participants.

Faculty Development Programme Organized - Engineering

AITR in coordination with Microsoft India Pvt. Ltd. and RGTU Bhopal organized a one day Faculty Development Programme on "Emerging Trends in Net Technologies" on 23rd March 2009. The Experts from Microsoft India Pvt. Ltd. conducted the technical sessions that benefitted 192 faculty members all over the Indore division. Dr. Durgesh Kumar Mishra was the coordinator of the event.
"A Two Weeks Faculty Development Programme

A Two Weeks Faculty Development Programme on Teaching Competency, Assessment of Student Learning, Effective Classroom and Lab. Instruction” was jointly organized by AITR and National Institute of Technical Teachers Training and Research, Bhopal, for the faculty members of BE, during 13-25 July, 2009. More than 20 faculty members were rigorously trained by the expert speakers on the vital issues of education. The event concluded with the valedictory function and the thought provoking speeches of several dignitaries and academicians. The Chief Guest, Dr. V.M. Gadre, Prof. in Electrical Engg., IIT Bombay distributed the certificates to all the participants. Dr. Gadre appreciated the institute’s vision and motivated the faculty members to adopt all the resourceful methods to uncover in students the huge reserve of the latent potential.

A Faculty development Programme on “Entrepreneurship Development” was attended by Mr. Prashant Geete, Reader, Mechanical Engg., Dept. and Mr. Gaurav Chaitanya, Lecturer, Electronics Dept. during Feb. 16-01 March, 2009 at LNCT Indore.

Mr. Gaurav Chaitanya, Lecturer, Dept. of Electronics attended a Faculty Development Program at Sanghvi Institute of Mgmt. and Science during 4-5 May 2009 on “Advanced Techniques in Designing Antenna and Microwave” organized by Ni2 Designs, Pune.

A Staff Development Programme on Refrigeration and Air conditioning was attended by Mr. Avichal Dubey during Jan. 19 - Jan. 31, 2009 at MITS Indore.

A Staff Development Programme on solar & wind energy was attended by Mr. Deepak Kumar Gautam during Feb. 27-March 12, 2009 at MANIT Bhopal.

SOCIAL AWARENESS PROGRAMS ORGANIZED

Roof Water Harvesting & Ground Water Recharging

Rapid urbanization and hi-tech infrastructural developments prevailing in Indore city are leading to over extraction of ground water resources resulting in declining of ground water levels and shortage of water supply which is seriously affecting the social conditions.

As water managers and societal conscious citizens the Civil Engineering Department of AITR visualized an urgent need to involve community participation in conserving this most valued natural resource. In order to provide technical backup to public and create awareness among the various sections of the society, Exhibition and Awareness Camp on “Roof Water Harvesting and Ground Water Recharging” were organized at Yashwant Club, Indore on 9th and 10th May 2009. The Chief Guest Shri Narendra Singh Tomar, Superintendent Engineer, Indore Municipal Corporation, appreciated the sincere and continued attempts of the institute.

He deliberated this noble effort as an awakening call which is both stirring and timely. Lectures on related topics were delivered by the expert speakers.

Technical inputs, interactive sessions and queries were handled by Mr. Narendra Surana, City Engineer, and Prof. S.K. Sohani, Head - Dept. of Civil Engineering. In the course of time, several organizations in and around Indore, approached the institute for technical guidance and the institute has extended an open hand to all the them.
World Environmental Day

A

ITR in association with CEPRD, celebrated the World Environmental Day on 5th June 09 at Jal Auditorium, Indore. The notable event comprised lectures on environmental issues like bulging heat, fire and water. Lectures were delivered by Dr Rakesh Trivedi, Mr A. S. Mehta and Mr Vijay Charate. The Chairman Shri. Ashok Sojatia and Prof. S.K. Sohani were highly indebted to all the eminent speakers for disseminating the most treasured information to all the solicited addressees of Indore city.

Road Show for Safety

In order to prop up conscious and safe living, the department of FMS, under the able guidance of Dr Anand Sapre, Director FMS, organized a Road Show on 24th January 09 for motivating the people to strictly adhere to traffic rules for safety. This ardent task was designed and coordinated by Prof. Avinash Desai, FMS. The FMS department, teaching & non-teaching staff and students (also from undergraduate courses), participated enthusiastically.

Students of FMS notifying the safety rules.

Inauguration of Research Forum "Delving"

To promote and motivate the researchers into the research activities, a Research Forum "DELVING", was constituted on 2nd March 2009. To consecrate the event the institute was privileged to have the most recognized researchers Dr Chatur Singh, Senior Research Scientist, IIT Kanpur, Prof. S. Narote, Pune University, Pune and Dr. M. Chandwani, Director- IET DAVV Dr Chandwani inaugurated the research forum and the event was coordinated by Dr Dharmesh Mishra, HOD - Comp. Science & Dean (R & D).

Research Project in Progress

Research project entitled "Microstructure of Thin Films Prepared by Reactive Sputtering", sanctioned under Collaborative Research Scheme by UGC-DAE, Center of Scientific Research, Indore, is in progress. The project is under the headship of Dr. Rachna Gupta, Lecturer, Dept. of Engineering Physics. She is going to study the surface, structural and magnetic properties of nanometer length scale thin films.
Research Advancement
Mr. Anand Babu, Reader, Dept. of Civil Engg., is registered for Ph.D under Dr. R.K. Shrivastav, Professor, Dept. of Civil Engineering, GSITS, Indore. Mr. Anand will work on "Optimization of Water Resources Systems" during the research tenure.

Professional Membership
Dr. Rachna Gupta, Lecturer, Dept. of Engg. Physics, is a life member of Indian Neutron Scattering Society.

Industry Visit - FMS
A visit to Vipcy Spin Pro Ltd. Dewas, organized for MBA students, on 12th June 09 to observe the skills involved in the process of spinning manufacturing. The objective of these visits was to acquaint the students with the working and formation of the spin. They were also exposed to the external elements influencing the work like culture, climate and the functioning of various departments in the industry. The visit was supported by submission of industrial reports to the concerned mentors.

Students' Achievements - Arts, Academia & Literature
"Consolation Prize in National Seminar - Pharmacy"
Palak Khandelwal, a student of B Pharma, I semester, Acropolis Institute of Pharmaceutical Education and Research, Indore, won a consolation prize in the poster presentation on "Global Stability Perspectives and Regulatory Aspects", at National Seminar on "Current Trends & Challenges in Pharmaceutical Sciences" held at Swami Vivekananda College of Pharmacy, Indore, on 7th March 2009. The poster was designed under the meticulous guidance of Dr. Mona Nagaz, Dr. Tahir Nizami and Ms. Durgesh Tiwari. The Prize was awarded by Dr. Piyush Trivedi, Vice Chancellor, R.G. TU, Bhopal.

II Prize in Inter-College Dance Competition - Engineering
Consecutively for the second time, Acropolis won the II prize in the Intercollegiate Dance Competition "NAACH 09" held at IET, DAVV, Indore on 20th February 09. This special item presented by the BE students was choreographed and coordinated by Mr. Gaurav Chaitanya, Lecturer, Dept. of Electronics. Mr. Gaurav is a recipient of "Nitya Ratna" an honor bestowed by Akhila Bharatiya Shankariya Samarth, Omkareshwar in March 2009 for his enormous devotion to classical dance.

Industry Visit - Engineering
To complement the curriculum with the practical edge, Prof. M.K. Dube, CEO, organized the industrial visits for the BE I Semester students in the month of January 09. According to the planned schedule, students of various branches visited the following companies where they observed the functioning of various departments.

? The students of Computer Science & Mechanical Engg., BE I Semester, visited the Indo German Tool Room on 15th and 16th January 09.
? The students of IT BE I Semester, visited Tata International Ltd., Dewas on 21st January 09.

Students lifting the trophy at IET, DAVV, Indore
II Prize in English Play at National Level Theatre Festival - Engineering

The students of BE participated in a National Level Theatre Festival organized by Radio Mirchi & Airtel at Daily College Business School, Indore during 25-27 April, 2009 and jagged the Runner up trophy for their stupendous enactment of the English Play "Bishop and his Candlesticks". The play was directed by Mr. Sushil Vijayvargiya, IT - IV yr.

"Tata Crucible Campus Quiz - Engineering

Mr. Aditya Desai and Ms. Drupika Raj of IT branch, BE pass out batch, participated in the Tata Crucible Campus Quiz, organized at Anand Mohan Mathur Sahabahrah, Indore and achieved 8th position out of the 250 teams participated in the event held in the month of March 2009.

Inter-College Quiz Competition - FMS

The FMS organized an Inter-college "Business Quiz" competition on 31st January 09. The students of various institutes of Indore region participated in the event. Winner & Runner up students were awarded a cash prize of Rs. 750/- & 500/- respectively. The certificates were distributed to all the winners and the participants by the Chairman, Shri Ashok Sojatia. The event was coordinated by Prof. Vishal Geete, Ms. Anjali Shukla and Ms. Deepti Singh.

"Best Institute Award for Acropolis - FMS

Students of MBA IV & II Semester participated in Intercollegiate Competition organized by Sushila Devi Bansal College of Technology, Indore from 2nd to 4th July'09. Out of the 21 institutes participated in various events, Acropolis jagged the best institute award for the overall dazzling performances of the MBA students in various competitions. Students won the following prizes and have also participated in other activities like Quiz and Antakshari competitions. The Chairman of the institute Shri. Ashish Sojatia congratulated all the winning teams.

AD Mad Show - I Prize
On-the-Ramp (Fashion Show) Competition - I Prize
Brand Dumb Competition - I Prize
Dance Competition - I Prize
Best Business Invention Award - Engineering

MIT University of America awarded "The Best Business Invention Award" to Mr. Apoorv Gaurav, BE pass out, IT branch and Mr. Ripudaman, BE III yr. CS, for their highly innovative project on TMSO (Tracing of a Mobile even when it is Switched Off). Shri. Anil Kumart IG, Indore, appreciated and acknowledged the students for exhibiting their skilled potential in the field of research. He also asserted that the findings of the project would minimize the efforts of the police department and also help in detecting the criminals timely. The Chairman of the institute Shri Ashish Sojatia, Prof. M.K. Dube, CED and Dr. M.D. Agrawal, Principal, AITR congratulated the young researchers for their mighty contribution to the globe.

Young Leaders Global Conclave - FMS

Students of MBA IV Semester Prashant Sharma, Devendra Chokse & Praveen Singh Baghel participated in Young Leaders Global Conclave held at Coimbatore during 28th to 30th January '09.

I Prize in Documentary Competition - FMS

Prakhar Sharma & Anurag Choudhary, MBA II Semester got I position in Documentary Competition in a Techfest held on 8th May '09 at Acropolis Institute of Technology & Research, Indore. The theme of their documentary was Terrorist Attack on 26th Nov '08 at Mumbai.

I Prize in Poster Making Competition - Commerce

Ms. Ekta Sudan a student of B.Com I yr won I Prize in Inter-College Poster Making Competition held at IPS Academy Indore.

National Tech-Fest "Armageddon - 09"

The CSI Student Branch of AITR, Indore, organized the second National Tech-Fest "Armageddon - 09" on 7th and 8th May 09. The inaugural ceremony was held on 7th May 09. Shri. N. Ravi Chandran, General Manager, SBI, Indore and Shri. Suresh Raina, Area Sales Manager Dell Computers inaugurated the event. Mr. Ravi Chandran endorsed the jubilation of the students and encouraged them to contribute their best. He strongly expressed that education devoid of such activities is incomplete and droning. To explore the hidden talents and spirits, several competitions were held in the field of Robotics, Hacking, Lan Games, Documentary Films, Web Designing, Quiz, Technical Debates, Computer Programming etc. Besides these competitions, seminars, workshops on ethical hacking and mock campus were also conducted; projects were designed on JAVA and .Net language. Around 1300 students representing 30 institutions all over the nation participated in the various competitions.
Competitive Tests Cleared - Engineering

**GATE '09**

The following students have qualified the Graduate Aptitude Test in Engineering (GATE'09):

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Percentile</th>
<th>All -India Rank</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a)</td>
<td>Mr. Archit Ojha</td>
<td>94.62</td>
<td>2251</td>
</tr>
<tr>
<td>(b)</td>
<td>Ms. Arpita Shukla</td>
<td>90.66</td>
<td>3000</td>
</tr>
</tbody>
</table>

**IT FINAL YEAR**

(a) Mr. Shashank Namdeo 99.63% 157 All -India Rank

Following students have qualified the Management Aptitude Test (MAT'09)

**CS FINAL YEAR**

(a) Ms. Swarna Bisani 94.62%
(b) Ms. Anshita Maharishi 90%

**IT FINAL YEAR**

(a) Mr. Abhishek Hurkat 86%

Following students have cleared MPMET

**EC FINAL YEAR**

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>All India Rank</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a)</td>
<td>Ms. Akanksha Vyas</td>
<td>39</td>
</tr>
<tr>
<td>(b)</td>
<td>Mr. Rajiv Vijayvargiya</td>
<td>43</td>
</tr>
</tbody>
</table>

Ms. Akanksha Vyas, EC IV yc scored 99.35 percentile in MAT conducted by AIMA.
INDUCTION IN INDIAN AIR FORCE

Out of the 8 candidates selected all over the nation in SSB (Service Selection Board), Dehradun Selection Board recommended 02 students of AITR, Mr. Rahul Dalvi & Mr. Saurabh Majumdar, 2009 pass outs, EC branch, for induction in Indian Air Force, Batch No. F-FPM/80482. Rahul got selected for Flying Branch and Saurabh notched his position for both Flying & Technical Branch.

Annual Gathering and Sports Meet - Ardor’09

Our culture is rooted deeply in our spiritual values and unless these values find their way in life, education will lose its significance. The reflection of these values is apparent from the contribution made by the students through cultural fests. The acknowledged judges Shri Ram Jog, Shree Kant Bhogle, Mrs. Abha Varve, Mrs. Madhu Godbole were taken aback by the mesmerizing ideas, sense of awareness, creativity and its depiction in an eye catching form. Several competitions were held in the field of music, dance, arts & crafts, academia & literaria and Sports. Through these competitions, the students could explore, nurture and display their unmatched qualities.

The theme of Ardor’09 was “COLOURS”. The program considered the various colors like white, red, green, yellow, orange and black and depicted the impact of these colours in our life through various forms of art, dance and music. Ardor'09 started with “Ganapati Vandana”. The cultural program started with salsa, western form of dance, showing how white light disperses in various vibrant colours. A drama depicting the emerging stigma of the society “Terrorism” was showcased by the students. The program ended with tuneful acrobant.

Chairman of the college Shri Ashish Sojatia welcomed the Chief Guest, the Vice Chancellor of RGTU, Dr. Piyush Trivedi. The Chief Guest addressed the students and made them realize the importance of hard work and discipline in life. He appreciated the outstanding performance of the students and motivated them to go ahead with a strong vision. The presiding guest of the occasion was Shri R. G. Gadkari, G. M. (Operations) State Bank of Indore. Annual report was read by the Principal, Dr. M. D. Agarwal. He highlighted the overall achievements of the academic year 2008-09. To bless the occasion Shri Ashok Sojatia, Dr. Sunil R. Dharendra, Professor K. R. Mahadik, and Dr. Mrs. Suneela Dhadeshwar were also present amongst many dignitaries in the gathering. Prizes were given away by the chief guests to all the winners in various categories. Dr. Anand Sapre proposed the vote of thanks. The evening was a blend of traditional and modern culture under the progressive roof of Acropolis which means always on the top. The event proved to be a grand success.

-Pushpa Pathak
Convenor – Ardor 09
Papers Presented/Published in National / International Conferences and Journals: Engineering/FCA/FMS/Commerce/Pharmacy

Department of CS & IT- Engineering

Dr. Durgesh Kumar Mishra, Professor & Head (CSE) and Dean (R&D) has been recognized as Invited Speaker by the various societies worldwide. The details of his research papers published/presented are as follows:

- A research paper entitled “MPI and PVM based HPC Setup for Multi-Scale Modeling-part1” is published in the International conference on “Advance Computing Communication and Control” organized by ACM-SIGART, American Computing Machinery.
- A research paper entitled “MPI and PVM based HPC Setup for Multi-Scale Modeling-part1-part2” was published in the IEEE International Advance Computing Conference 2009 - (IACC-2009), Patiala, India.
- Four Research papers were published in INDIACom-2009, organized by CSI-Delhi Chapter and the Govt. of India, held between 26th - 27th February 2009.
- Delivered a Invited talk on “Secure Multi-Party Computation for preserving privacy during knowledge discovery Data Mining” in AICTE-ISTE sponsored One week Short Term Training Program(STTP), Organized by Gangpat University, Kherva, Mehsana, North Gujarat.
- Appointed as a reviewer and name is listed in the editorial board of International Journal of Information Systems and Management (IJISAM), UK.
- A research paper entitled “Optimizing HPC and Parallelization for Computational Nanotechnology in MCCS Environment” was accepted for the presentation and publication in IEEE International Conference, held between May 6-9, 2009 at Pattaya, Thailand.
- A research paper entitled “A Secure Multi-Party Computational Protocol to protect cyberspace for Defense Applications” is accepted for the presentation and publication in 8th European Conference on Information Warfare and Security at the Military Academy, Lisbon & the University of Minho, Braga, Portugal 6-7 July 2009.
- Program committee member and reviewer of 8th European Conference on Information Warfare and Security at the Military Academy, Lisbon & the University of Minho, Braga, Portugal 6-7 July 2009.

Mrs. Richa Tiwari Gupta, Reader (CSE) presented/published the following papers in the National /International Conferences/Journals:

- A research paper was published in the proceedings of IEEE International Conference, IACC’09 on “Efficient pair of replacement algorithms for L1 & L2 cache for matrix multiplication”, organized by IEEE, Delhi Section on 06-07 March, 2009.
- A research paper was published in the proceedings of Conference “Information Sciences and Systems, CISS’09” on “Efficient pair of replacement Algorithms for L1 & L2 cache”, organized by Johns Hopkins University, USA held during 18th-20th March 2009.

Mr. Neeraj Agrawal, Lecturer, Dept. of Computer Science, attended a conference on “Computational Intelligence, Communication System and Network” held at Hotel Lemon Tree during 23-25 July 09. The event was jointly organized by Vikrant Institute of Technology and Management, Indore and IEEE.
Depr. olEc & El
Prof. Manish Sharma, HOD- EC, presented a paper entitled "Birds Eye View on Indian Telecom Scenario" in a National Conference "Business Technologies" held at Truba Institute of Technology, Indore between 13-14 March, 2009.

Depr. olMechanical Engng.
Mr. Suresh Bhatni, Prof. & Head, Mechanical Engg. presented/published the following papers in the National / International Conferences/Journals:
- A paper "Application of office-TPM in management" of Mr. Suresh Bhatni and Mr. Saurabh Jain, Lecturer, Dept. of Mech.Engg., was presented in a National Conference held at PIPS, Indore on Feb. 16th 2009.
- A paper "Value analysis on Imported M/C" was published in "Journal of Institution of Valuers", New Delhi, vol. 15, March 09.

Depr. olApplied Sciences and Humanities
Dr. Anita Thakur, Reader & Head, Applied Sciences & Humanities, presented the following papers in the National and International Conferences:
- A paper "Nuances of Translation and its relation with Multiculturalism" was presented in a National Conference "Translation as a Site for Cultural Traffic" sponsored by Central Institute of Indian Languages (CIIL) Mysore, and organized by School of Studies, Vikram University Ujjain between 9-10 Feb. 09.
- A paper "Shakespearean audience and its impact on the stage: Understanding Shakespeare in global perspective." was presented in a National Conference on "Drama in Doldrums" organized by Govt.

Degree College, Shivpuri, between 24-25 Feb 09.
- A paper "Strategic Enhancement of Communication Paradigm for Resolving Team Divergence and Semantic Blockade" was presented in a National Conference organized by SMVD Univ. Jammu during 13-14 March, 09.
- A paper "Functional representation of the doctrines of education for peace and equity in society." was presented in an International Conference on "Arts, Science, Management and Engineering", organized by KLS Gogte Institute of Technology, Belgaum & Cogent International at Goa between 23-25 April 09.

Dr. Shivraj Singh, Reader, Dept. of Applied Chemistry, participated in the International Conference on "Wetland Systems Technology in Water Systems Technology in Water Pollution Control", organized by International Water Association (IWA) & Vikram University, Ujjain, held between 1st - 7th Nov. 2008 at Indore.

- A paper entitled "Prioritization of Condition Monitoring Technique using AHP & Reducing Environmental Pollution" of Mr. Satish Talreja, Sr Lecturer, Dept. of Applied Mathematics, was published in the national journal "Journal of Ultra Scientist of Physical Sciences", Vol. 21(1), April 2009.

Depr. of FCA

Prof. D.M. Puntambekar and Mrs. Nupur Bhatnagar presented a paper entitled "SOA - A solution to bridge intergovernmental communication gap" in the Third PIMR International Conference held at Prestige Institute of Management and Research in association with Indian society of Technical Education, Indore Chapter held on 12th & 13th September 2008 at Indore.
Prof. D.M. Puntambekar, Zulfa Shaikh, and Mrs. Pushpa Pathak presented a paper in the International Conference at Institute of Management Technology, Ghaziabad (U.P) on Data Management dated 10th - 11th Feb 2009.

Prof. D.M. Puntambekar, Zulfa Shaikh, and Mrs. Pushpa Pathak presented a research paper on "Analysis of data in SMC" in 2009 IEEE International Advance Computing Conference (IACC-09) organized by Thapar University, Patiala, IEEE Delhi Computer Society Chapter Delhi Section. Paper was published in the online journal IEEE Xplore.

Prof. D.M. Puntambekar, Mr. Shailesh Gondal & Mr. Manoj Agrawal presented a paper entitled "Quality Parameters in Web Accessible Services" in the National Conference held at Truba Group of Institutes, Indore held on 13th & 14th March, 2009 at Indore. The paper was published in a National Journal.

Mr. Shailesh Gondal, Reader & Mr. Manoj Agrawal, Lecturer-FCA, presented a paper entitled "Implementing u-learning by Means of e-learning & Multi-user Intelligent m-learning Environment" in an International Conference on "Arts, Science, Management and Engineering" held between 21st - 23rd April 2009 at Goa, organized by Gogte Institute of Technology and Cogent International, Belgaum, Karnataka.

Mr. Arvind Jaiswal & Mr. Shailendra Singh Bhalla presented a paper entitled "Detection & Deterrence of SQL Injection Assaults" in a National Conference held at Truba Group of Institutes, Indore held on 13th & 14th March, 2009 at Indore. The paper was published in a National Journal.

Ms. Kirti Nene presented a paper entitled "E-Commerce: Its Study and Importance" in the National Conference held at Truba Group of Institutes, Indore held on 13th & 14th March, 2009 at Indore.

Dept. of FMS

Dr. Anand Sapre attended International Conference on Technology & Management held at Dubai during 29th March to 1st April 09. He chaired a session for Strategy 1 and also presented the paper entitled "A Model for Strategic Marketing Decision in B2B Market".

Dr. Anand Sapre & Ms. Anjali Shukla participated in International Conference held at Prestige Institute of Management & Research, Indore on 7th & 8th Feb. 09 and presented a paper entitled "To Study the Factors Influencing Employee Retention".

- A paper entitled "Empirical Study of Computer Based Production Planning System of Pharmaceutical Industry" of Prof. Avinash Desai, FMS, is selected for a journal, Indian Institute of Material Management.


Prof. Vivek Sapru participated in International Conference held at Prestige Institute of Management & Research, Indore on 7th & 8th Feb. 09. He presented a paper entitled "Consumer's Perception on Electric Two Wheeler- A Study of Yo-Bykes".

Prof. Vivek Sapru participated in National Conference held at Maharaja Ranjit Singh College, Indore on 11th & 12th June 09. He presented a paper entitled "Marketing & Changing Traits in Gender Role".

Prof. Sandeep Singh participated in International Conference held at Prestige Institute of Management & Research, Indore on 7th & 8th Feb. 09. He presented a paper entitled "Innovative Distribution Model: Impacting Core Competencies".

Prof. Sandeep Singh conducted a Customer Satisfaction Survey towards the dealer of Tata Car for Acropolis Institute of Technology & Research, Indore.
Papers Presented/Published in Conferences/Journals - Engineering Students


- Paper published in the proceedings of IEEE International Advanced Computing Conference, Patiala on "MPI & PVM based HPC setups for Multi-Scale Modeling", on 6th-7th March 2009. This paper is also published in IEEE Xplore Journal.

- A research paper entitled "Optimizing HPC for Computational Nanotechnology in MCCS Environment", is selected for publication in the proceedings of 6th IEEE International Conference on Electrical Engineering/Electronics, Computer, Communications, and Information Technology, ECTI-CON'09, Pattaya, Thailand held between 6th-9th May 2009. This paper is also published in IEEE Xplore Journal.

- A paper entitled "Complexity minimization in Secure Multipartying computation for privacy Preservation during data mining" of Ms. Neha Koria, Mr. Ravish Babey and Mr. Nikhil Kapoor of CS IV yr. was published in the proceedings of, INDIAcom'09, Delhi, held between 26th-27th Feb. 2009.

- A paper entitled "Wearable Computers" of Mr. Sourab Khandelwal and Ms. Priyanka Rohira of CS III yr. was published in the proceedings of TechFest held at BITS, Pilani, held on 25th March, 2009.

- A paper entitled "Prevention from the terrorist bomb attacks", of Mr. Sanjay Singh Sengar, Mr. Ameen Uddin and Mr. Rahul Rathore was published in the proceedings of, INDIAcom'09, Delhi, held between 26th-27th Feb. 2009.

EDUCATE BEFORE YOU MEDICATE

Taking medicine is more than just swallowing a pill...

Medicine is designed to help you if you take it the way it is intended. You should always be aware that it is your responsibility to become involved in the decisions regarding your medical care and treatment, ask questions about any concerns you may have, and be actively involved in the solutions. By understanding what questions to ask your health care provider, dentist, and pharmacist, you are taking the first step in making sure that your medicines work to their maximum benefit and also help in preventing unsafe combinations of medicines.

In India, patients are at greater risk for adverse drug reactions taking multiple medications without its knowhow. An adverse drug reaction is, any harmful, unintended, or unwanted effect of a medicine and is a leading cause of illness. Sixty-four percent of all patients visiting physicians result in the prescribing of medicine. In the year 2007, billions of prescriptions were filled. That is about 10 prescriptions for every person in India. The number of medicines prescribed, combined with the increasing use of over-the-counter medicines, vitamins, and herbal supplements, is putting our society at risk for increasing numbers of adverse drug reactions.

So take charge of your health by asking questions, keeping track of your medicines, and by informing your health care providers, dentist, and pharmacist of all medicines you take, including prescription medicines, over-the-counter medicines, vitamins, and herbal supplements.

Here are three steps you can take to help ensure safe medicine use:
Step 1:
Take part in your treatment decisions.
Don't be afraid to ask questions and talk about your concerns.

Step 2:
Follow your treatment plan.
This includes contacting the doctor with any concerns you have about your medicine, especially during the first few days as the body is adapting to the medication. Don't let embarrassment keep you from telling your doctor important information.

Step 3:
Watch for problems and get help in solving them.
Keep working with your health professionals while you are taking your medicine. This means don't change doses or abruptly stop a prescription without consulting a health-care provider first.
To put it simply here are 10 important questions from the National Council on Patient Information and Education (NCPIE) that suggests you Educate Before You Medicate.

Anytime a medicine is prescribed, be sure to ask your health-care provider or pharmacist:

1. What is the name of the medicine and what is it for? Is this the brand name or the generic name?
2. Is a generic version of this medicine available?
3. How and when do I take it—and for how long?
4. What foods, drinks, other medicines, dietary supplements, or activities should I avoid while taking this medicine?
5. When should I expect the medicine to begin to work, and how will I know if it is working? Are there any tests required with this medicine (for example, liver or kidney function)?
6. Are there any side effects, what are they, and what do I do if they occur?
7. Will this medicine work safely with the other prescription and nonprescription medicines I am taking (including dietary or herbal supplements)?
8. Can I get a refill? When?
9. How should I store this medicine?
10. Is there any written information available about the medicine? (Is it available in large print or a language other than English?)

And remember, tell your health-care professionals:

- All of your medical conditions and the names of doctors providing treatment;
- The names of all medicines you are taking, including prescription and nonprescription medicines, dietary or herbal supplements, vitamins or minerals, laxatives, pain relievers and sleeping aids;
- Any problems you are having with your medicines; and
- The medicines to which you are allergic.

-Kirti Pancholi
Lecturer - Dept. of Pharmacy
SOCIAL NETWORKING
CONNECTING OR DISTANCING HUMANITY?

6.5 BILLION PEOPLE AND ONLY 6 DEGREES OF SEPARATION!

On the one hand you have population experts sounding warning bells about an ever expanding population worldwide - "6.5 billion people and the world is growing"; on the other hand is an interesting theory known as the six degrees of separation which talks about a shrinking world.

The six degree theory suggests that each person is only 5 relationships away from knowing the sixth human being on this planet. So if you were to pick any random unknown person on earth, you would be connected to that person through a chain of just 5 common acquaintances. This makes the world appear smaller and more connected despite the huge population. Several tried to prove this theory of social networks; several still consider it an urban myth. This six degree of separation idea is important because it was the basis of the social networking sites that we know today.

Social networking sites mushroomed in the mid 90s. People are spending more and more time online. Today the blackberry toting, net-surfing pod population is busy blogging, Twittering, Flickering (uploading pictures), playing Second Life and networking with others, using the tools of social media. Yet paradoxically, people seem to be feeling more isolated than ever despite the digital closeness.

So, are the social networking sites connecting people or distancing them socially, culturally, and emotionally?

Connecting people
- Social networking sites defy geography. Given the busy lifestyles and the fact that people are scattered across the world, social networking helps people to stay in touch.

- Social networking sites provide ways to extend offline relationships, giving people ways to arrange meetings and events easily. Twestival, an event organized by the Twitter community is just such an example where the online community finds ways of socializing offline.

- Social networking sites provide ways for like-minded people to share ideas and collaborate, making them feel more connected.

- People with disabilities who find it difficult to go out and meet people, feel more connected using these sites. The older generation is also finding ways to stay connected with grandchildren and other family members scattered throughout the world.

- Social media is proving to be useful in education. Recently Imperial College in London is experimenting with using Second Life (the virtual 3D world) to help medical students learn how to treat patients.

- Politicians are using social media. Campaigns are no longer local but are becoming international. Social media is connecting global communities of people.

- Social media is here to stay. With the web becoming mobile, people are going to embrace social media even while on the move. Technology is only as good as the people using it. If used properly, social media can help bridge distances between people. Social networking has the power to make you feel connected to every sixth person in the world!
Distancing people

- Social networking sites are addictive. While many people use it to extend their friendship, others simply use it as a replacement for real world friendships.
- A social media user may have over 1000 friends but the ties with all 1000 are unlikely to be strong.
- Online relationships do not require the same interpersonal skills needed in the real world. Social skills such as tact, sensitivity, empathy, and anger management are getting lost online. In the real world, people do not just walk up to you and ask to be your friend - they have to earn the right. Online however relationships can be made or broken with a click of the mouse. This possibly increases the feeling of disconnection.
- A Facebook poke is no replacement for a real world hug.
- There is no divide between what is private and what is public. Online public suicides,voyeurism, and other intimate details revealed through micro blogging are not an indication of "connecting" with people.
- Second Life is a free virtual world where users can socialize and connect. This virtual world has a population of 100,000. Each person (known as a resident) controls a three dimensional puppet known as an avatar. The avatar often reflects the personality of the user. The avatar can be programmed to display a range of human emotions and indulge in virtual activities like dancing, partying, and shopping. They can create and trade virtual property. Users interact and socialize with each other in the virtual world through these avatars. How can sitting alone in front of the computer be a real interaction or connection with people?
- The virtual world is no longer a static page. It is a 3-dimensional space made to resemble the real world. Addiction to this virtual world is disconnecting people from having real and more meaningful relationships. It is also disconnecting the users themselves from reality.
- People spend endless hours reading trivia about others in the virtual world. This takes away time that could be used to socialize in the real world.
- The person you "think" you are connecting with is possibly "hiding" behind an adopted online persona.
- British scientists are indicating that social networking sites have a negative impact on the social skills of children.
- People in office are using office hours for social networking sometimes at the cost of not interacting with their office mates. A common scenario in an office meeting is that people are checking out their Facebook accounts or sending and receiving Tweets. This may be coming at the cost of actually participating in the meeting, listening to others, and being involved in meaningful dialogues. This could only serve to alienate people and hurting team spirit.
- The online community is furthering a digital divide between those that have access to internet and are members of social networks and those that do not have access to the internet or don't use it effectively. The digital divide exists between countries. It can also exist within a country. Social networking was used extensively by the Obama campaign. In such political campaigns, Facebook and MySpace became part of a participatory culture. Those who do not have access to internet are getting marginalized and isolated. Imagine the digital divide that already exists within India. Providing net access to India's 1 billion is still a distant dream. So the divide will continue to exist.
- The Pope has warned people against extensive use of social networking as it could marginalize a lot of people worldwide.

Seldom has technology been received with open arms at the very onset. Television, the internet and every other innovation has had to deal with criticism to begin with. Social media is no different. In this case, the criticism is not entirely unfounded. Social media maybe reducing the degrees of separation but it is also reducing the quality and depth of the links that people have, thus leading to a sense of increasing isolation. But, like other innovative ideas, social networking is here to stay. People of all age groups and all walks of life are going to increasingly warm up to the idea. Its judicious use can only be left to the individual's discretion.

Vedang Goyal
CS-1 III year
RETURN OF THE NATIVE - INDIA'S BRAIN GAIN
Will India's Brain Gain sustain when the Global Economy Recovers?

Brain Drain
- During the 80s and 90s India's intellectual energy was migrating out of the country. Talented students, research-oriented people, and the high-skilled and technical workforce were moving out to seek better opportunities in the US and other developed nations. People cried "lou!" against these migrants for leaving after the government had invested in them. But, in a country of a billion people, the out-migration of a minor percentage was initially not a cause of great concern for the leaders of India.

The wake-up call
- The people who were leaving were the top-tier talent pool. It was India's intellectual capital—the value of which cannot be measured directly, but the loss of which often translates into loss of financial capital. The leaders realized the long-term losses for the nation. Science and technology, innovation, and the health care industry were being hit. India was in a state of flux. Liberalization, economic reforms, globalization, and the IT sector were changing the Indian landscape...perhaps readying it for the reverse brain-drain.

Reverse Gear
- A study in 2006 estimated that 60,000 IT professionals from the US had moved back to India. By 2007, 5000 doctors had moved back to India from the UK. More and more Indians are returning home. The global economic recession appears to be adding momentum to this reverse brain drain.

Why do people migrate? It is due to push and pull factors. Push factors are the unfavourable characteristics of a place that force people to leave. Pull factors are the characteristics of a place that seem attractive enough to draw people there. Push and pull factors could be social, cultural, economic or even political.

Push factors in the US
- Non-pragmatic and restrictive immigration policies are frustrating Indians. The US issues 65,000 H1-B visas to foreigners who want to work in the US. The visa cap is restrictive compared to the number of applications from world over. The permit allows the worker a period of 6 years during which there are several restrictions in terms of jumping jobs. The delay in issuing green cards is another factor. Post 9/11, the immigration policies have become even more stringent.

- The dot-com bubble in the US burst in the first half of this decade. The exodus of IT workers from California had begun. The current financial crisis added the momentum. The subprime mortgage, the economic meltdown and the weak job market has left the Indians in the US disillusioned. The massive number of lay-offs coupled with the difficulty of finding a new job has got many Indians packing their bags.

- The economic turmoil has impacted the US universities. Students are prolonging their graduation since the job market is down. They cannot get a work permit which means they need to prolong their graduation (to retain student status), take up another degree or return to India. Getting financial aid/research grants is getting difficult. Even the best universities like Harvard and MIT are going through budget cuts and lay-offs.

- Post 9/11, Indians (along with other foreigners) were increasingly becoming victims of hate crimes. In the last year or two, there have been increased news reports about murders of Indian students. While the motives behind these murders could be diverse, the security and safety issues are possible psychological push factors.

Pull Factors in India
- Economic reforms in India during the last one decade have stirred a sleeping giant so to speak. The deregulated Indian economy has seen a tsunami of foreign investments. Improved infrastructure, improved healthcare, access to amenities and better work opportunities are drawing Indians back.
opportunities are drawing Indians back.

- Despite the global recession, a lot of the Indian firms are still hiring. Locally, India is reeling under the Satyam scam, recession and competition but the global community perceives the Indian job market to be a lot safer.

- India is an emerging market in finance. Hit by recession, the traditional financial nerve centres like London, New York, and Tokyo are staggering to stay afloat. Headhunting companies in Mumbai are reporting that the number of job applications is increasing from the US. The interesting fact is that the job applicants are not just Indian NRIs. Many foreign nationals are also indicating their interest in the Indian finance market which seems relatively safer than the traditional brand names globally.

- Overseas Citizenship Certificate in India allows returning Indians to enjoy the benefits of Indian citizenship without surrendering their foreign passport. This government initiative has acted as a pull factor attracting many NRIs to India. They feel “safer” in knowing that they could return if things don't work out.

- Investment banking, private equities, and IT sectors in India are attracting business graduates from the US. India with its burgeoning software exports industry is an international IT hub. It is no longer back-end work. IT is now becoming more product-oriented. India is attracting experienced people.

- India is rearing to position itself as a global knowledge based research and development centre. The latest type of outsourcing work coming India’s way is R&D. This is coming from manufacturing, pharmaceuticals, biotechnology and a variety of other sectors. Cost of innovation in India is relatively less than in the western world. It's not just cost but also the highly skilled workforce in India. Entrepreneurs find it easier to set up labs here. The large and readily available market also helps. R&D is a major pull factor. It is also attracting major investments from global corporations.

- The success of the Chandrayaan moon mission played a critical role in enhancing India’s image in the space technology department. There have been reports of Indian scientists working in NASA showing interest in working at ISRO. Whether or not it attracts scientists from NASA to work at ISRO remains to be seen.

- Cultural and social ties remain strong in Indians. People often return to be with family. The emotional bonds act as strong pull factors.

**Plugging the Drain**

India needs to capitalize on this brain gain. An experienced, multicultural, high-skilled workforce is going to further fuel India’s economic growth. Here are some possible measures that India needs to take in order to retain the intellectual capital:

- Provide quality education with more emphasis on research. A large number of students migrate to the US for research degrees. Improving the research sector is critical in retaining the best.

- The government needs to step up its spending on R&D.

- Tie-ups, collaborations, and partnership with foreign universities can help improve competition and quality of education. Foreign universities are already shopping in India and planning on opening campuses. Whether a Harvard-like campus in India can provide the same educational experience is debatable.

- Improving infrastructure and amenities will encourage more foreign investment.

- Go green and adopt green business practices.

- Terrorism is a threat that needs to be dealt with in order to ensure that India retains its talent pool and continues attracting others.

India is attracting its own back again. It is also opening doors to foreign workers and students. What started as a trickle is increasing into a stream. What remains to be seen is whether this reverse brain drain is significant enough to offset the drain that took place over almost 3 decades. Is India's brain gain going to sustain once the global economy recovers? Until then, it appears to be Namaste India!

-Vedang Goyal
CS-III Year
The Case for Artificial Intelligence

Artificial intelligence has been the subject of many bad 80's movies and countless science fiction novels. But what happens when we seriously consider the question of computers that think. Is it possible for computers to have complex thoughts, and even emotions, like homosapien? I will seek to answer that question and also look at what attempts are being made to make artificial intelligence (hereafter called AI) a reality. Before we can investigate whether or not computers can think, it is necessary to establish what exactly thinking is. Examining the three main theories is sort of like examining three religions. None offers enough support so as to effectively eliminate the possibility of the others being true.

The three main theories:

1. Thought doesn't exist; enough said.

2. Thought does exist, but is contained wholly in the brain. In other words, the actual material of the brain is capable of what we identify as thought.

3. Thought is the result of some sort of mystical phenomena involving the soul and a whole slew of other unprovable ideas. Since neither reader nor writer is a scientist, for all intents and purposes, we will say only that thought is what we (as homosapien) experience.

But, if the address were changed, it wouldn't know how to go about finding the new one (or even that it should). So intelligence is the ability to perform a task taking into consideration the circumstances of completing the task. So now that we have all of that out of that way, can computers think?

The issue is contested as hotly among scientists as the advantages of Superman over Batman is among pre-pubescent boys. On the one hand are the scientists who say, as philosopher John Searle does, that "Programs are all syntax and no semantics." Put another way, a computer can actually achieve thought because it "merely follows rules that tell it how to shift symbols without ever understanding the meaning of those symbols." On the other side of the debate are the advocates of pandemonium. "Our brain subconsciously generates competing theories about the world, and only the winning theory becomes part of consciousness. Is that a nearby fly or a distant airplane on the edge of your vision? Is that a baby crying or a cat meowing? By the time we become aware of such images and sounds, these debates have usually been resolved via a winner-take-all struggle. The winning theory—the one that best matches the data—has wrestled control of our neurons and thus our perceptual field." So, since our thought is based on previous experience, computers can eventually learn to think. The event which brought this debate in public scrutiny was Garry Kasparov, reigning chess champion of the world, competing in a six game chess match against Deep Blue, an IBM supercomputer with 32 microprocessors. Kasparov eventually won (4-2), but it raised the legitimate question, if a computer can beat the chess champion of the world at his own game (a game thought of as the ultimate thinking man's game), is there any question of AI's legitimacy? Indeed, even Kasparov said he "could feel I could smell— a new kind of intelligence across the table." (Time, 55) But, eventually everyone, including Kasparov, realized that what amounts to nothing more than brute force, while impressive, is not thought. Deep Blue could consider 200 million moves a second. But it lacked the intuition good human players have. Fred Gutent, writing in Discover, explains. "Studies have shown that in a typical position, a strong human play considers on average only two moves. In other words, the player is choosing between two candidate moves that he intuitively recognizes, based on prior experience, as
contributing to the goals of the position. “Seeking to go beyond the brute force of Deep Blue in separate projects, are M.I.T. professor Rodney Brooks and computer scientist Douglas Lenat. The desire to conquer AI is where the similarities between the two end. Brooks is working on an AI being nicknamed Cog. Cog has cameras for eyes, eight 32-bit microprocessors for a brain and soon will have a skin-like membrane. Brooks is allowing Cog to learn about the world like a baby would.”

It sits there waving its arm, reaching for things.” Brooks’s hope is that by programming and reprogramming itself, Cog will make the leap to thinking. This expectation is based on what Julian Dibbell, writing in Time, describes as the “bottom-up school. Inspired more by biological structures than by logical ones, the bottom-uppers don’t bother trying to write down the rules of thought. Instead, they try to conjure thought up by building lots of small, simple programs and encouraging them to interact.” Lenat is critical of this type of AI approach. He accuses Brooks of wandering aimlessly trying to recreate evolution. Lenat has created CYC. An AI program which uses the top down theory which states that “if you can write down the logical structures through which we comprehend the world, you’re halfway to re-creating intelligence. Lenat is feeding CYC common sense statements I.e. “Bread is food.” with the hopes that it will make that leap to making its own logical deductions. Indeed, CYC can already pick a picture of a father watching his daughter learn to walk when prompted for pictures of happy people. Brooks has his own criticisms for Lenat. “Without sensory input, the program’s knowledge can never really amount to more than an abstract network of symbols.

**Neural Networks**

What is our brain but a complicated network of neurons? Neurons are the basic computational element in the brain which is interconnected to produce its computational power. Therefore, the brain can be viewed as a network of billions of simple computing devices, each operating on its own set of input and transmitting its output to specific sets of other computing devices in the network. So, what’s the answer?

The evidence points to the position that AI is possible. And what is thought but response to stimuli? How to go about achieving AI is another question entirely. All avenues should be explored. Someone is bound to hit on it.

-Akhilesh Madmal

CSIVyr.

Entrepreneurship Development
Cell Inaugurated

Acropolis Institute of Technology and Research Inaugurated Entrepreneurship Development Cell on August 11, 2009. This cell has been started in association with Entrepreneurship Development Institute of India, Ahmedabad. The objective of starting this cell is to develop a spirit of “Self Employment” and “Self Reliance” among students, and also to create awareness among them, to choose entrepreneurship as a very viable career option with a vision to spearhead entrepreneurship movement with a belief that entrepreneurs need not necessarily be born, but can be developed through well-conceived and well-directed interventions.

We have also introduced a course called ‘Open Learning Diploma in Business Entrepreneurship’ (OLDBE) with the help of the Entrepreneurship Development Institute of India (EDI), Ahmedabad. It is mainly through correspondence and personal counseling. This course facilitates learning at the pace and place of the participants. This is a roll-on programme with new recruitments once in every three months i.e. in January, April, July and October.

Acropolis is the nodal centre for the same. This course has already been launched in the states of Gujarat, Karnataka, and Maharashtra and Acropolis is the first institute in M.Pto launch this course. This course is open for all the students of various colleges, rural youth, graduates, diploma holders, etc.

The course is so designed as to develop entrepreneurial traits and motivation as well as the spirit of enterprise, decision-making capabilities required to set up a business venture, expertise to successfully manage an enterprise, the course inputs are both functional and developmental.

This cell and this course has been started in
Entrepreneurship Development Programme

The Entrepreneurship Development Institute of India (EDI) is an autonomous body and not-for-profit institution, set up in 1983 in Ahmedabad, Gujarat. It is promoted by apex financial institutions, namely IDBI Bank Ltd., IFCI Ltd., ICICI Ltd. and State Bank of India (SBI) with active support from the Government of Gujarat.

The institute is registered under the Societies Registration Act, 1860 and the Public Trust Act, 1950.

The National Science & Technology Entrepreneurship Development Board (NSTEDB), established in 1982 by the Government of India under the aegis of Department of Science & Technology (DST), is an institutional mechanism to help promote knowledge based and technology driven enterprises. The Board aims to convert "job-seekers" into "job-generators."

Dr. N. Ravichandran - Director - Indian Institute of Management (IIM), Indore was the Chief Guest, Dr. Pankaj Trivedi - Director - Swami Vivekanand Career Guidance Scheme, Dept. of Higher Education, Govt. of M.P. was the Guest of Honour and Mr. Raman Gujaral Senior Associate Faculty & Regional Coordinator (Central & North India Offices) - Entrepreneurship Development Institute of India (EDI), Ahmedabad was the Special Guest.

A formal exchange of MOU was also held between Mr. Gaurav Sojalia - Chairman, Acropolis Institute of Technology & Research and Mr. Raman Gujral - Regional Coordinator, EDI, Ahmedabad.

-Dr. Pooja Gopwani
Head - Training & Student Welfare
Coordinator - ED Cell
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