

BITScan

Semester Notes

Issue 9



**BIRLA INSTITUTE OF TECHNOLOGY
AND SCIENCE**

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ENDURING QUEST FOR EXCELLENCE

The First Semester 2006-2007 embarked on yet another expedition at BITS under the dynamic leadership of Prof. L.K. Maheshwari, the new Vice Chancellor. The innovations in academic, cultural and administrative domains continued to gleam through. Introduction of new degree programmes, unparalleled organization of cultural and sports festivals, restructuring of the functional units of administration



and similar ventures spoke volumes for the innovative spirit embedded in the BITSian culture. Chancellor Dr. K.K. Birla visited the campus and had lively discussions with students and faculty. Conferences and workshops on topics of importance were held. Distinguished lectures were organized by various faculty groups and centres inviting many experts from academic institutions, industries and governments to the campus. Faculty members visited institutions in



India and abroad on invitation to deliver talks and participated in discussions. They presented their research papers at national and international conferences thus disseminating knowledge and developing new contacts.

Prof. V. Lakshminarayanan, the first Director of BITS, was remembered by the faculty, students and alumni of BITS, and his family members at a day-long function

organized at the Institute to commemorate his Birth Centenary. As in the earlier semesters, faculty members and students brought many laurels to the institute. Keeping up the spirit of social and entrepreneurial initiative, forums such as NSS & My India and centres such as CDDT, CWS, and CEL at the Institute involved themselves in fruitful activities. The spirit of innovation and enthusiasm sparkled through the cultural and sports festivals, OASIS and BOSM 2006, that witnessed huge participation from a number of institutions across the nation. In a nutshell, the semester turned out to be one with significant transformation, activities and achievements.

ACADEMIA : A CONFLUENCE OF IDEAS

Seminars/Conferences/Workshops/Training programs

National Conference on Environmental Conservation (1-3 September 2006)

A three-day National Conference on Environmental Conservation (NCEC-2006) was organized by the Chemical Engineering Group from 1-3 September 2006. Prof. Jayant M. Modak, Head, Chemical Engineering Department of IISc, Bangalore was the chief guest at the inaugural function. About 160 papers on inter-disciplinary issues such as Industrial experiences in Pollution Prevention and Control, Life Cycle Assessment, Environmental Pollution, Renewable Energy Sources, Planning Aspects and Tools for Industrial Zoning, Community Participation, Environmental Hydrology, Systems Approach in Environmental Engineering and Water Resources Planning & Management, etc. were presented and discussed in the conference.

Dr. V. Govardhan Rao, IIT, Bombay; Dr. S. Mohan, IIT, Madras; Dr. Renu Bhargava, IIT, Roorkee; Dr. S. Anantpadmanaban, SASTRA, Thanjavur; Dr. Jayant M. Modak, IISc, Bangalore; Dr. S. R. Asolekar, IIT, Bombay; Dr. D. N. Rao, AIIMS, New Delhi and



Dr. P.A. Joshi, DDIT, Nadiad delivered the key note addresses in different technical sessions of the conference. The conference was financially supported by many industries and govt. agencies.

International Workshop on Consultation and Experience-sharing on Safe Motherhood-Looking Ahead (8-9 September 2006)

A two day international workshop on Consultation and Experience-Sharing on Safe Motherhood - Looking Ahead was organized by the Centre for Women Studies (CWS), BITS, Pilani, during 8-9 September 2006. Prof L K Maheshwari, Vice Chancellor, BITS Pilani in his address talked about the initiatives taken by CWS at BITS and mentioned that Indian heritage and rituals are rich enough to show us ways to overcome issues related to women health. The Chief Guest, Dr. I P Kaur, Deputy Commissioner, Maternal



Health Division, Ministry of Health and Family Welfare, Govt. of India inaugurated the function. In her speech she deliberated on issues of maternal care, skilled workforce and grass roots planning for women healthcare. Other speakers in the inaugural function included Ms. Tara Bhandari, Chairperson, Rajasthan State Commission for Women, Dr. Ranjana Kumari, President, Women Power Connect & Director of Centre for Social Research, Dr. Satish Kumar from UNICEF Rajasthan and Barbara Wejnert, Chair, Department of Women and Global Studies from State University of New York, University of Buffalo, USA. In all, more than 80 delegates participated in the workshop that was financially supported by national and international organizations.

National Convention on Energizing Entrepreneurship in Academia through Innovation (6-7 October 2006)

A two-day Convention on Energizing Entrepreneurship in Academia through Innovation was held at the Institute during 6-7 October 2006. The convention was inaugurated by Prof. L.K. Maheshwari, Vice-chancellor.

Mr. R.C. Jamtari, Member, Planning Commission gave the keynote address where he emphasized on the need for strengthening small-scale entrepreneurs. The convention was aimed to arouse responsiveness about innovation, venture capital and to offer possibilities for



networking by bringing financiers, consultancy firms, entrepreneurs, government agencies, universities and R&D research institutions on one platform. The sessions by experts focussed on Opportunity Identification and Assessment; Technology Entrepreneurship; Innovation, Entrepreneurship and IPR; Venture Team Development; Financing Start up Venture - Pitch Your Idea; Issues and challenges for Start ups in India.

Another interesting feature of the Convention was “The Technology Bazaar” which provided an opportunity for the enterprising students, researchers and academicians to present their innovative ideas, design and prototypes which were evaluated on the basis of their potential and finance worthiness by experts and best ideas were rewarded. In all, 45 ideas were displayed in the Technology Bazaar and the participants were mostly students of technological institutions apart from a few scientists and academicians.

Academic Development Programs in Basic Process Engineering for the newly recruited employees of Hindustan Zinc Limited (HZL), Udaipur

The first two one-month programmes (out of the three planned) in Basic Process Engineering for the newly recruited employees of Hindustan Zinc Limited (HZL), Udaipur were conducted during 06 Nov- 05 Dec. 2006 and 08 Dec.2006 – 09 Jan. 2007 respectively at the institute. This programme is specially designed for the employees of Process Industries in India which have been facing a challenge of developing and updating the knowledge of their human resources in order to cope with the rapid technological and social changes arising due to globalization and liberalization.



The programme included lectures, discussions and laboratory practice in various disciplines such as chemical engineering, chemistry, physics, maintenance management, workshop practice, communication skills, management principles, financial and managerial accounting and practice in spreadsheets. With its main focus on Chemical Engineering, the programme also enabled the participants to complete projects in selected areas of Process Engineering under the supervision of faculty members.

Training Oriented Workshop on Quality Improvement (15 December, 2006)

A one day Training Oriented Workshop on Quality Improvement for the police personnel of Jhunjhunu district, was Organized by the Public Relations Unit of the Institute on 15 December 2006. The workshop was inaugurated by Prof. K.E. Raman, Deputy Director



(Admn.) and Shri Sachin Mittal, the Superintendent of Police, Jhunjhunu district was the Chief Guest. More than 40 police personnel attended the workshop.

Skills Development Programme for Office Staff

Under the initiative of Vice Chancellor, a training program, namely, Skills Development Program for the office staff of the institute was organized in order to train them in office administration, communication skills, inter-personal skills and computer skills. The 3-month program conducted for the first batch of office

staff during 5 October - 22 December 2006 included lectures, group discussions and presentations. 20 office staff from various Divisions and Units were benefited by this training program. Their performance was assessed and they were awarded certificates at a function organized on the closing day.

CHANCELLOR'S VISIT

Dr. K.K. Birla, Chancellor, BITS, Pilani visited Pilani campus on 24 November 2006. He paid a short visit to Birla Sarvajanic Hospital where he inaugurated the Blood Bank. At the Student Activity Centre he witnessed a Karate practice showcased by students of the Institute, visited the gymnasium, badminton and table tennis courts and discussed various activities with the students. Later in the evening, he met the faculty and students at a tea party organized at the



VFAST lawns. He took keen interest in talking to the Board toppers who joined the institute this semester, executive members of the student council and other clubs & associations, and faculty members of the Institute. At a dinner hosted by him at Chandra



Bhavan, the Chancellor met the senior officers of the Institute and discussed issues such as on-going research projects, future directions in research, social initiatives, health issues and achievements of BITS alumni.

DISTINGUISHED LECTURES AT BITS PILANI

Speaker	Designation	Topic	Date
Dr. D. Nageswara Rao	Prof., Dept. of Biochemistry, AIIMS, New Delhi	Nanotechnology boon to vaccinologist	14 August 2006
Mr. Sunil Tadwalkar	Principal Consultant, Satyam Computer Services	Quality Process Improvements for Excellence	14 August 2006
Dr. Sunil Sanon	Managing Director, Dr. Sanon's Clinic and Pathology Centre, Mussoorie	Where is the Mind	07 September 2006
Shri Karthik Shah	Teacher, The Art of Living Foundation	Introduction to the Art of Living	09 September 2006
Dr. H. L. Kundu	Retd. Professor, Ecology, BITS, Pilani	Some Ecological Challenges That we are Facing and How to Tackle Them	18 September 2006
Dr. Utpal Tatu	Associate Professor, IISc, Bangalore	Proteomics-Applications in Malaria Research	21 September 2006
Dr. Manish K Gupta	Dept. of Mathematics and Statistics, Queens University, Canada	DNA Computing	4 October 2006
Dr. R. P. Agrawal	Associate Professor, S. P. Medical College and PBM Group of Hospitals, Bikaner	Camel Milk and Diabetes	10 October 2006
Dr. Rajiv Dutta	Professor & Head, Biotechnology Department, AMITY Institute, Lucknow	Application of Nanobiotechnology on growing pollen tube	26 October 2006
Dr. Amarjit Singh	Founder Director CEERI	Integrity in Management	28 November 2006
Dr. Anu Puri	Senior Scientist & Research Biologist, CCR Nanobiology program, NCI-Frederick	1. Mechanisms of HIV-1 Entry and Pathogenesis 2. Lipid-Based Nanoparticles for Drug Delivery: Current and Future Perspectives	07 December 2006

INTERNATIONAL VISITS BY FACULTY

Enriching the Learning Experience

Prof. Rajiv Gupta attended the International Conference on From Invention and Development to Product: From research Institutes to Water Industry held at Sede Boqer; Ben-Gurion University of the Negev, The Jacob Blaustein Institutes for Desert Research, Israel and presented a paper on Design and Development of Rainwater Harvesting System during Nov 28-30, 2006.

Prof. A.K. Sarkar, on invitation from Centre for Transportation and Logistic Studies, Gajah Mada University, Yogyakarta, Indonesia participated in the International Workshop on *Mobility and Health* and presented a paper on *Impact of PMGSY Roads on Health in Rural Rajasthan (India)* between 15 and 17 August 2006. He also



attended the Asia Regional Meeting held during 19-21 August 2006.

Prof B.V. Babu visited Singapore to deliver an Invited Seminar Talk in the Department of Chemical and Biomolecular Engineering, National University of Singapore on December 03, 2006. He also visited Kuala Lumpur (Malaysia) as an



invited distinguished speaker at the International Conference on Life Cycle Assessment and Life Cycle Management Methodologies during December 4-5, 2006.

Prof S.P. Gupta attended and presented a paper on "A Quantitative Structure-Activity Relationship Study on Some Series of Anthranilic Hydroxamic Acid-Based Matrix Metalloproteinase Inhibitors" in Gordon Research Conference in Medicinal Chemistry, New London, New Hampshire, USA, during Aug. 6-11, 2006.

Dr. Shamsher Bahadur Singh participated in the tenth East Asia-Pacific conference held in Bangkok during 3-5 August 2006 and presented a paper entitled Evaluation of Flexural and Shear Strengths of CFRP Prestressed Concrete Box Beams.

Dr. Shikha Tripathi attended the 18th IEEE International Conference on Pattern Recognition (ICPR'06) held in Hong Kong during August 2006 and presented a joint paper on Novel DCT and DWT based Watermarking Techniques for Digital Images co-authored with Gayatri V, and R C Jain.

Dr. Sangeeta Sharma participated in the 9th Bi-annual Conference on Development Strategies- a Comparative View held at the University of Brighton, UK during 7-9 September 2006 and presented a paper entitled Advertising Adaptation: Need to reach mammoth rural hoi polloi in India.

Dr. Chittaranjan Hota Visited Telecommunications Software and Multimedia Laboratory at Helsinki University of Technology, Helsinki, Finland on invitation from 1 Oct 2006 to 1 Nov 2006 to participate in Joint research in the area of Trustworthy Internet. Delivered Invited talks in the area of MANETs, Sybil defense, and Internet QoS to International Masters students at HUT, Finland.

Mr. Venugopal Kolachina, Ph. D. scholar of the Pharmacy Group, participated in the 2006 American Association Pharmaceutical Scientists (AAPS) Annual Meeting and Exposition, conducted by AAPS at Henry B. Gonzalez Convention Center, San Antonio, Texas, USA during 29 October - 2 November, 2006 and made a poster presentation on In-situ Ophthalmic Gels



of Gatifloxacin: Development and In-vitro Evaluation. Mr. Kolachina also made a poster presentation on Combined Quantitative Structure-Activity Relationships and Quantitative Structure-Pharmacokinetic Relationships on Antibacterial Quinolones, co-authored by Prof. Ranendra N. Saha and Murali Raman.

Dr. S. Jagdish attended the 18th IASTED International Conference on Parallel and Distributed Computing and Systems (PDCS-06), Dallas, Texas, USA during 13-15 November 2006 and presented a joint paper on cmUML: A Precise UML for Abstract Specification of Concurrent Components. He also visited the Department of Computer Science of the University of Texas, Dallas (UTD) on 16 November, 2006.

J. Vaigunda Ragavendran, Ph. D. scholar of the Pharmacy Group participated at the 6th Asian & Oceanian Epilepsy Congress held at Kuala Lumpur, Malaysia during 16 - 19 November, 2006, and presented a paper on "Design of Gaba Uptake Inhibitors: Synthesis and Anticonvulsant Properties".

Mr. Shashwat Sharad participated in the 4th Congress of the Federation of Asian-Oceanian Neuroscience Societies (FAONS), which was held in Hong Kong during 30 November - 2 December 2006 and presented a paper entitled "Association



between Two Mu Opioid Receptor Gene (OPRM1) Exon1 Polymorphisms and Opiate addiction in Indian Subjects". Mr. Shashwat received a Travel Grant from the International Brain Research Organization (IBRO) to present this paper.

Dr. Nilashis Nandi visited Germany and carried out the collaborative research at the Max Planck Institute of Colloid and Interface Science, Golm, Potsdam, Germany during the summer, 2006. MPIKG financially supported this collaboration.

Dr. Anil Kumar's three papers (i) Application of two safety-catch linkers in solid-phase synthesis of sulfonamides (ii) Cellular delivery of phosphopeptides by positively-charged tripodal peptides, co-authored by G. Ye, Nguyen H. Nam and (iii) Simultaneous HPLC analysis of lamivudine and its succinate in rat plasma, co-authored by C. Chimalakonda, K. Parang and R. Mehvar, were presented at 232nd ACS National Meeting San Francisco, United States during August 2006 (i and ii) and AAPS Annual Meeting and Exposition, San Antonio, TX, United States, October 2006 (iii) by G. Ye and C. Chimalakonda respectively.

INVITED TALKS BY THE FACULTY

Prof. C.B. Gupta delivered four invited lectures on Estimation Theory, Time Series Analysis and Forecasting, Time Series and its Components, and Random Numbers at IMS Engineering College, Ghaziabad (24 July 2006), Kedar Nath Agarwal Institute of Management, Charkhi Dadri (30 September 2006), Meerut Institute of Engineering and Technology, Meerut (3 October 2006) and JVMGRR Post Graduate College Charkhi Dadri (8 November 2006) respectively.

Mr. Rajesh Purohit delivered lectures and conducted practice sessions in Allen Bradley Micrologix 1000 Analog PLC for a batch of 38 Graduate Engineers of Batliboi Machine Tools Division, Surat (Gujrat) during 02-05 August 2006.

Prof. Meenakshi Raman, on invitation from Oxford University Press of India, conducted a one-day workshop on *Interviewing Skills* at ICFAI-INC, Hyderabad on 31 August 2006. She Chaired a session on *Communication and Decision Making* at the Seventh International Conference on Operations and Quantitative Management



organized by AIMS in Jaipur during 3-5 August 2006. She also delivered a talk on 20 September 2006 on *Importance of Communication Skills in Health Care Profession* at Jamia Hamdard University, New Delhi.

Prof. Arya Kumar delivered an invited talk on *Entrepreneurship – BITS Model* at the Innovation and Entrepreneurship seminar organized by TARKASH, Entrepreneurship Cell of Jagan Institute of Management Studies on 09 September 2006, at India International Center, New Delhi. Prof. Kumar also participated in the Seminar (sponsored by Planning Commission) on Critical Issues of Investment in Rajasthan, in Context to XIth Five Year Plan, organized by Institute of Development Studies, Jaipur on 12 April 2006.

Prof. S. Balasubramanian was a special Invitee at the Institute of Plasma Research (IPR), Gandhinagar, for the PSSI-IPR workshop on National Fusion Programme –ITER and Beyond, held during November 8-10, Ahmedabad. He delivered an Invited Talk on 'Microwave Engineering Education' at the Symposium on Vacuum Electron Devices and Applications (VEDA), 2006 held during 11-14 October 2006 at CEERI, Pilani.

Dr. Motilal Dash delivered an Invited talk on *Cultural Legacy and Traditional Craftsmanship in Orissa*, at the national seminar organized by the Dept of Anthropology, Sambalpur University during 16 – 18 October 2006.

Dr. Rakesh Choubisa delivered a talk on *Simplified analytical model for the computation of FDOS on the (e, 3e) process on He* in the Workshop on Computational Physics held at J N V University, Jodhpur during 12-16 October 06.

Dr. P.S. Rao delivered a talk on *Performance of a slider bearing at high Reynolds number in thermohydrodynamic flow regime* at UGC-DRS Center for Fluid Mechanics, Department of Mathematics, Bangalore University, Bangalore during 26-28 October 2006.

Prof. S. Gurunarayanan delivered an invited lecture on “Wireless Sensor Network” at Institute of Plasma research (IPR), Ahemdabad during 8-10 November 2006.

Prof. Navneet Goyal delivered 2 invited lectures on “Data Mining Techniques” at Indian Agricultural Statistics Research Institute, New Delhi on 16th Nov. 2006.

Dr. Nilashis Nandi delivered two invited talks (i) at the National Conference in Chemistry Department, Benaras Hindu University on How molecules control the design of mesoscopic architectures during March 2006 (ii) on Chirality and Recognition in Biomimetic Systems: Role of Molecular Interactions at the National Conference organized by the Chemistry Department, Manipur University, Imphal

Dr. Sajeev Chandran Chaired a Scientific Session on ‘Pharmaceutical Education & Professional Pharmacy’, at 58th Indian Pharmaceutical Congress, organized in Mumbai during 1-3 December 2006.

Dr. Sangeeta Sharma conducted a three-day workshop on Communication Skills at Chemical Technology Department of Calcutta University during 27-29 December 2006. She chaired a session in Seventh International Conference on Operations and Quantitative Management, AIMS International conference for the session on Marketing.

Dr. Sanjiv Kumar Choudhary chaired the panel discussion on “English Language Teaching in the 21st Century” held at the end of the National Conference on Changing Paradigms and Perceptions: Challenges of Contextualizing English Studies, at University College of Engineering, Osmania University during 29-30 December 2006.

SIGNIFICANT PROJECTS

Name of the Group and Principal Coordinator	Title of Project	Funding Agency and Amount
Civil Engineering Prof. A.K. Sarkar	IDA Indicator- Preparatory Activity for RRP II World Bank	National Rural Roads Development Agency (NRRDA), Ministry of Rural Development, Government of India (Rs 3.52 Lakhs)
Chemical Engineering Prof B. V. Babu	Studies on Biomass Gasification	K K Birla Academy (Rs. 3.00 Lakhs)
Biology Prof Suman Kapoor	Genetic Basis of Alcohol Induced Pancreatic Disorders	ICMR, Delhi (Rs15 Lakhs)
Chemistry Dr. Pradipta Purkayastha	Photophysical and photochemical characterization and modulation of selected fluorophores in constrained biological environments	Department of Science and Technology, Govt. of India (Rs. 14.34 Lakhs)
Chemistry Dr. Nilashis Nandi	Theoretical Study of Chiral Discrimination and Chiral Recognition Phenomenon in Amphiphilic and Teptide System	Department of Science and Technology, Govt. of India (19.7 Lakhs)
Physics Dr. Anshuman Dalvi	Crystallization Studies on AgI and CuI Based Superionic Glasses	Department of Science and Technology, Govt. of India (Rs. 8.8 Lakhs)

REVIEW OF BOOKS/PAPERS

Faculty members from various disciplines appointed as members of national and international advisory committees/acted as reviewers for books/published papers in journals of national and international repute.

Name of the Faculty	Article/Book reviewed	Journal/Publisher
Prof. Rajiv Gupta	1. Prediction of Concrete Compressive Strength Using Artificial Neural Networks 2. A Fuzzy Multiple Criteria Decision Making Approach for Transshipment Site Selection in Waste Management	Journal of Engineering Structures, Science Direct, Elsevier, 2006 Journal of Waste Management
Prof. S. Balasubramanian	1. Digital Communication 2. Antennas 3. Broadband VSAT (Paper)	Tata McGraw Hill, 2006 Oxford University Press IEEE Communication Magazine, COMMAG-06-00287
Prof. Surekha Bhanot	MATLAB and its applications in Control Systems	Pearson Education
Dr. Daleep Kumar	Papers in Chemistry	1. Bioorganic Medicinal Chemistry 2. Indian Journal of organic Chemistry, Section A
Prof. Navneet Goyal	Data Warehousing & Data Mining	Oxford University Press, New Delhi
Prof. Suman Kapoor	Paper	An International Journal on Cardiovascular and Hematological Agents in Medicinal Chemistry
Dr. Anu Gupta	1. Energy Efficient Charge Recovery for Positive 2. Feedback Adiabatic Logic 3. Low Power 8-Bit Data Compression Hardware Using Adiabatic Logic Availability Based Tariff-An Introduction	IETE Technical Review, 2006 IETE Technical Review, 2007 IEEE Potentials, 2007
Prof. B. V. Babu	20 papers in Chemical Engineering	Elsevier: Chemical Engineering Science, Computers and Chemical Engineering , International Journal of Heat and Mass Transfer, Chemical Engineering, Journal of Analytical and Applied Pyrolysis, Bioresource Technology , Applied Mathematical Modelling, Journal of Petroleum Science and EngineeringTaylor & Francis:Heat Transfer Engineering , Chemical Engineering Communications, International Journal of Systems Science, Materials and Manufacturing ProcessesIEEE: IEEE Transactions on Evolutionary Computation ,IEEE Transactions on Systems Man and Cybernetics (IEEE)ACS: Industrial & Engineering Chemistry Research Inderscience:International Journal of Environment and Pollution IPSI BqD: Transactions on Internet Research (Mary Ann Liebert Inc: Environmental Engineering Science
Prof. S. P. Gupta	Papers in Chemistry	Editor-in-Chief of four journals published by Bentham Science Publishers, The Netherlands and USA; Editor of Monograph Series QSAR and Molecular Modeling Studies on Heterocyclic Drugs, Vol 3 and 4, Springer Verlag, Heidelberg, Germany, 2006; Editorial Board Member of Indian Journal of Chemistry Sec B, CSIR, New Delhi and Letters in Drug Design and Discovery, Bentham Science, USA
Dr. Sangeeta Sharma	Vocabulary at your Fingertips	Vikas Publishing house, New Delhi.
Dr. N. Rajesh	1. An improved method for the introduction of low molecular weight organic acids in variable charge soils 2. Sorption behaviour of cesium on granite: aspects of kinetics, isotherm and surface distribution	Talanta Journal of Colloid and Interface Science
Dr. N. N. Sharma	"Engineering Colleges- Short of Logic" of Jaana Holvikivi	IEEE Tr. Education
Dr. Shikha Tripathi	Signals & Systems	Tata McGraw-Hill Companies
Dr. P. Srinivasan	Effect of titanium Carbide Particle addition on the densification behavior of sintered P/M high strength steel preforms during cold upset forming	International Material Science and Engineering, an Elsevier science Publications
Dr. Mukesh Kumar Rohil	TGRS-2006-00246.R1 WAVANGLT:an efficient supervised classifier for hyperspectral images	IEEE Transactions on GeoScience and Remote Sensing

39th ENGINEERS' DAY

The 39th Engineers' Day was celebrated at the Institute on 15 September 2006 with the theme *Role of Engineers in Natural Disaster Mitigation and Management*. The function started by paying floral tributes to Sir Visvesvarya and lighting of the traditional lamp by the dignitaries. In his opening remarks, Prof. L. K. Maheshwari, Vice-



chancellor, BITS, Pilani, recalled the contributions of Sir Visvesvarya in the mitigation and management of natural disaster. He justified the theme of the celebration citing some of the recent disasters our country has faced and said that engineers have to play major roles in preparing the nation in how to face natural disasters. Prof. Ravi Prakash, Dean R&C and coordinator of the progame, threw some light on the life and contributions of Sir Visvesvarya and also highlighted the necessity of discussing this year's theme through some pictures. Dr. S. Vatsal, Director, DRDO, New Delhi emphasized on the need for relevant research to meet the challenges of natural disaster. He also urged the young faculty to take advantage of the 32 DRDO labs in pursuing their research. Several presentations were made by the BITS faculty members and the students.

Independence Day Celebration

The Institute celebrated the country's 59th Independence Day with much fanfare and gaiety. Breaking the convention, the Vice-Chancellor, Prof. L. K. Maheshwari gave the opportunity of unfurling the Tricolour to the longest serving employee, Mr. Mahavir Prasad popularly known as BABA, a class IV employee of the institute. It was indeed a touching moment for everyone to see the Vice-Chancellor along with his Deputy Directors, Chief Warden and Chief Security Officer receiving Babaji when he reached the



venue in the Institute's car escorted by Dr. B. K. Mishra, warden of Malviya Bhavan hostel.



Mr. Prasad was also honoured on this occasion with a shawl by the Vice-Chancellor. A tree plantation drive by the NSS volunteers followed the national flag hoisting ceremony.

Birth Centenary celebration of the first Director of BITS Pilani

To mark the Birth Centenary year of Prof. V. Lakshminarayanan, the first Director of BITS, Pilani, a function was organized on 16 September jointly by BITS and the family members of Prof. V. Lakshminarayanan at the Institute. Joined as the Vice Principal of the Birla engineering College



in 1946 Prof. V. Lakshminarayanan served as the first director of BITS Pilani from 1964 to 1970. Even after his retirement he was closely associated with the educational world.

The function attended by various dignitaries, family members, former faculty members and alumni, started with a tree plantation program and was followed by the unveiling of portrait of Prof. V Lakshminarayanan. And a session overflowed with tributes by faculty members – present and erstwhile, family members of Prof.V.L. and alumni of BITS spoke volumes on the respect and reputation earned by the first director of BITS, Pilani. As a tribute to this great leader and academician, a Seminar on the topic “Science, Technology & Education - Retrospect & Prospect” was organised in the afternoon. It was indeed a thought provoking session with five eminent personalities - Dr S Venkateswaran - Professor Emeritus cum Advisor to BITS Pilani, Dr R Chidambaram - the Principal Scientific Advisor to the Government of India, Prof.P.V. Indiresan- former Director of IIT Madras, Dr Rukmini Banerji – A part of PRATHAM, Mumbai Education Initiative Team and Prof D Balasubramanian - the Director of Research at the prestigious LV Prasad Eye Institute at Hyderabad speaking on the theme of the seminar. While Dr.Venkateswaran gave a brief introduction to the theme and the achievements of BITS,



Dr. R. Chidambaram stressed on his view that coherent synergy and directed basic research would make our country a leader in innovation. Prof. P.V. Indiresan, the next speaker urged today’s youth to take up challenges for the nation’s progress. Dr. Rukmini Banerji inspired the audience with her experiences at PRATAM and urged them to work to take up challenges facing the primary education of the nation. In his concluding remarks, Dr. D.Balasubramanian, expressed his views on emulating the BITS practice school model for a national mission involving children in the age group of 10 -15. The seminar ended with the vote of thanks proposed by Prof. B.R. Natarajan.

The evening session of the celebrations included the screening of a short film on the life of Prof V Lakshminarayanan, directed by Miss Radhika, his grand daughter in the institute auditorium. This was followed by an enchanting classical music recital by Ragamalika of the institute. Coordinated by the family members of Prof. V. Lakshminarayanan and the senior officers of the Institute, the function was marked with great fervor and commitment and turned to be the one that would be cherished by many for years to come.

JOINING HANDS

Memoranda of Understanding

Sustaining its collaborative efforts, BITS signed several MOUs with Institutions in India and Abroad:

- With Tehri Hydro Development Corporation Ltd., Rishikesh, on 4 September 2006, with the objective of fostering collaboration between the institutions to promote academic and research interactions. BITS would offer education programs to meet the human resource, development needs of THDC through Work Integrated Learning Programmes.
- With Open Students Television Network (OSTN), Cleveland, on 11 September 2006, for the content aggregation and distribution of the programming services.
- With Essar Power Limited, Hazira on 12 September 2006 to promote academic and research interaction of mutual benefit. BITS would operate an off-campus center at Hazira and run educational programs to meet the human resources development needs of

EPoL leading to specific degrees of BITS through its off-campus Work Integrated Learning Programmes.

- With Utah State University, Logan USA on 17 October 2006 to provide opportunities on their respective campuses from the students from abroad to seek admission in undergraduate and graduate programs, faculty exchanges and cooperative research.
- With Hindalco Industries Limited, Renukoot on 28 October 2006 with the objective of fostering collaboration between the institutions to promote academic and research interactions.

ACHIEVEMENTS

Mr. Rachit Chandra and **Mr. Pushp Saurav** from BITS Pilani are the proud recipients of the prestigious Aditya Birla Scholarship for the year 2006-07. The Aditya Birla Group Scholarship (ABGS) scheme, instituted in 1999, is a way to foster outstanding academic excellence and humane leadership values, in partnership with select institutions such as BITS Pilani, the IITs and the IIMs. The scholarship amount of sixty five thousand rupees per annum covers the academic as well as the hostel fee for the entire duration of the curriculum at these institutions.

Mr. Pramod P. Mr. K. Suresh Kumar and **Ms. Pragya Laad** of ME Microelectronics and **Mr. Prasanna Kr. Sahoo, Mr. Dal Bahadur Singh, Mr. Pawan Kumar O, Mr. Balakrishna G.** and **Mr. Saumitra Mishra** of ME Embedded Systems received the prestigious Phillips Fellowship. The fellowship, which was instituted in 2005 by Philips Semiconductors, is given to the students admitted in ME Microelectronics and ME Embedded Systems courses. It covers full fee waiver and Rs 7000 per month for one and half years. The fellow students have to do their Practice School II at Philips Semiconductors, Bangalore, in the last semester and they will be paid Rs 15000 per month during the course.

Mr. K Krishna Mahesh of EEE & computer Science Programme was awarded the I E T (Institution of Engineering and Technology, U.K) International Scholarship award of Rs.17000/-. He is one of the five students from India selected for this award this year.

Shri Naveen Sundar G of Physics & EEE Programme was awarded the GE Foundation Scholarship for the period 2005-2007. This

Scholarship covers the tuition and all other expenses of the student for the said period.

Prof. A.K. Sarkar was appointed (i) by the Ministry of Rural Development, Government of India as a member of the *subgroup on Rural Roads* for the preparation of the *11th Five-year plan* for the Planning Commission, Government of India (ii) by the Department of Science and Technology (DST), Government of India as a member of the Programme Advisory Committee (PAC) of the National Science and Technology Management Information System (NSTMIS) for two years (2006-08).

Dr. D. Sriram was awarded the “APTI-Young Pharmacy Teacher of the year 2006” by the Association of Pharmacy Teachers of India, for his achievements at a young age. The award was received from the Union Minister of State for Planning Mr. M.V. Rajasekaran during the 11th APTI Annual National Convention held at Bangalore during 1- 3 September 2006. The APTI applauded the efforts of this teacher having experience of less than a decade with a citation, memento and a cash prize of Rs. 10,000.

Mr. R. Rajkumar, Prof.R.Mahesh, and Mr.R. Venkatesha Perumal jointly won the best paper award in the Pharmacology & Toxicology session of 58th Indian Pharmaceutical Congress(National conference) held at Bombay Exhibition Centre, Goregaon, Mumbai, from 1-3 December, 2006. The title of the paper was “Antidepressant Potential of 2-(4-methylpiperzin-1-yl)-1,8-naphthyridine-3-carbonitrile in Mice Models of Depression.”

Dr. Nilashis Nandi received a financial grant worth 7277 Euros from Alexander von Humboldt Stiftung, Bonn, Germany for support in collaborative research for cost of equipment and software. Mr. Nandi’s research citation of publications as on July 2006, as per ISI citation index, were 736 and some of his publications crossed 100 citations.

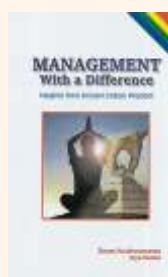
Prof. S. P. Gupta received the Best Citizen of India 2006 award from an international publishing house “Global Publishers”, New Delhi. The publishing house released a book highlighting the work of some selected personalities of India who exceptionally excelled in their chosen areas of activity and made notable contribution to the fame of the country.

The BITS-Amrit team received a cash prize of Rs. 25,000 as the runners-up team of the GE India Day contest on “Imagination Breakthrough

- In India, For India” organized by GE company on November 13, 2006. The members of the team were also offered pre-placement letters.

Mr. Rangarajan, a BITS Pilani alumnus, along with his other team members, developed a general model to study the process of extinction and has unveiled new facts on this problem. Two BITS Pilani alumni **Rama Krishna Gaddipati**, Co-founder, Bridle Information & Technology Solutions and **Sasikanth Chemalamudi**, CEO, Habits appeared in the Businessweek.com’s list of Asia’s Best 20 Young Entrepreneurs under the age of 25.

Prof. B V Babu’s joint paper entitled “Convective and Radiative Heat Transfer in Pyrolysis of a Biomass Particle” co-authored with A S Chaurasia, Amanpreet Kaur, and V Thiruchitrabalam, published in Indian Chemical Engineer Journal, Vol. 47 (No. 2), pp. 75-80, April-June, 2005 earned the Kuloor Memorial Award, 2006 awarded for the Best Technical Paper published in the Institute’s Journal “Indian Chemical Engineer” in its issues for 2005.



Management With a Difference Insights from Ancient Indian Wisdom, Ane Books India, New Delhi 2007, **Swami Anubhavananda & Arya Kumar**.

Optimization Linear Programming, Ane Books India, New Delhi, 2007, **B.N. Mishra & B.K. Mishra**



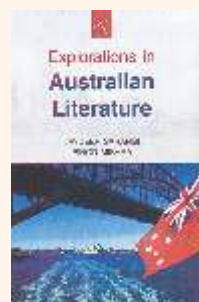
Prediction in Ungauged Basins for Sustainable Water Resources Planning & Management, Jain Brothers, New Delhi, 2007, **K. Srinivasa Raju**.

QSAR and Molecular Modeling Studies in Heterocyclic Drugs I, Springer, 2007, **R.R. Gupta & S.P. Gupta**.



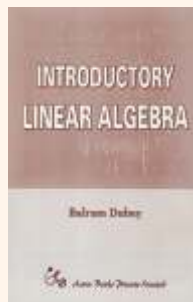
IN PRINT

Advertising Planning & Implementation, Prentice Hall of India, New Delhi, 2007, **Sangeeta Sharma & Raghuvir Singh**.



Explorations in Australian Literature, Sarup & Sons, New Delhi, 2006, **Jaydeep Sarangi & Binod Mishra**

Introductory Linear Algebra, Asian Book’s Private Ltd. New Delhi, 2007, **Balram Dubey**



RENEWING THE BOND

BITSAA

This semester the Golden Jubilee of BITSAA Delhi Chapter was celebrated with great fervor. On this occasion BITSAA organized a few talks on career opportunities by the alumni on 23 September. The alumni from the period 50’s to 90’s met the V.C and the senior faculty.



They also visited the Museum and campus with their families. Another key highlight of the semester was the occasion of Silver Jubilee Reunion of the 76-81 batch from 29 Sep to 1 Oct. Around 100 alumni came with their families to visit their Alma Mater. They went around the

campus to relive their memories. In the afternoon some of them delivered talks on different aspects of Career opportunities. A photo session was arranged in the Sky lawns and in the evening a wonderful cultural programme was organized in their honour. Mr. Shashi Warriar, an alumnus of BITS and a renowned author of thrillers and fairy tales conducted a workshop on creative writing and delivered two lectures during 2 – 6 October 2006 for the faculty and students. BITSAA organized the graduating tea party at the VFAST Hostel for the graduating students of the Institute on 29 November 2006.

CARING BEYOND OUR WALLS

Spoken English Classes for housewives

On the initiative of Prof. L K Maheshwari, ladies club was activated this semester. One of the most significant activities of the club was Spoken English classes conducted during August -



November 2006 by the faculty members of Languages Group and coordinated by Dr. Sangeeta Sharma. 24 enthusiastic women from BET and BITS campus registered themselves in the classes to learn English for functional purposes. The course brought a substantial change in the outlook of the attendees.

NSS

NSS BITS Pilani has been carrying out a range of developmental activities. This semester it took up the task of raising funds to accomplish the project - "Electrification of Raila village" in order to provide alternative sources of energy to Raila village. In this regard it organized a Food Festa 2K6 on 8 October 2006 which generated a sum of Rs.76,000/- and more than 2800 students and faculty members with their families participated in this venture. A health camp on "Impact of



Anemic Status of Rural School going Children by supervised Iron Therapy" was jointly organized by NSS and Franko-Indian Group, Jaipur for three



weeks. Another important activity was the Social Initiatives Week which was celebrated at BITS Pilani during the first week of October 2006 by inviting scholars & organizing community works, poster and slogan competitions, etc. On this occasion, Mr. Nagarajan S. 1994-95 batch IAS Topper and Ms. Aditi Pany, Business Development Manager from Development Alternative, Delhi, both BITS Pilani alumni, delivered talks.

CEL

CEL organized the following special invited interactions under **Meet an Entrepreneur** Lecture Series:

- Indian Railways – Glorious Past, Success and Turn Around by Shri R.R. Bhandari, Member Mechanical, Ministry of Railways, Railway Board on 8th August 2006.
- Demystifying Entrepreneurship – From Start ups to Within Corporations by Mr. Anurag Jain, Head Business Process Solutions Group, Perot Systems on 12th September 2006.
- What it Takes to be an Entrepreneur – Secrets of BITS Education System by Mr Manoj Saxena, Vice President, Industry SOA Solutions, IBM Software Group.

- Innovation and Entrepreneurship by Mr. Bobby V. Zachariah, One of the “50 Movers and Shakers” of BITSAA Silicon Valley.

CEL also organized **Epsilon – Zero to Infinity**, an intra BITS workshop on entrepreneurial business challenge which is conducted to provide insight into how to write a good B-Plan.

PROJECT_EMBRYO

Over 200 BITS Pilani alumni are professors at various universities in US alone while at least 15,000 alumni have graduate degrees and work in technology or other industries around the world. The sheer numbers coupled with extensive research and business experience of the alumni provides a rich pool of knowledge that can easily be tapped in to augment the quality of research and academic experience at BITS Pilani. But a large number of BITS Pilani alumni spread globally find it difficult to travel to Pilani to share their experience and knowledge. Project Embryo, a project to foster strong collaboration of BITS students and BITS faculty with the alumni and friends of BITS Pilani aspires to break this spatial barrier by using technologies like videoconferencing and online discussions. Through its lecture series and collaborative projects, the students can get exposure to the cutting edge research areas. They will also get an opportunity to network with alumni and friends of BITS, who are reputed academicians and industry leaders, and become Leaders, Innovators and Entrepreneurs of tomorrow. For details of lectures logon to :

<http://www.bitsembryo.org/disclectures.php>

Centre For Desert Development Technologies (C-DDT)

This semester the Centre was dynamic with several activities. A Plant Biotechnology facility was created with the fund support from the C-



DDT. Under this facility a Tissue Culture Lab and a Green House have been built for Micro propagation of economically important plants, development of draught and salinity resistance in selected plants, maintenance of rare plant species and cultivation of off season fruits and



vegetable in the green house. Also, during the Semester, Mr. Gyanendra Singh, Chief Sponsor of the C-DDT project, visited BITS and took active interest in C-DDT activities and crystallized future course of actions to be taken.

Center for Women Studies

Besides organizing a two-day workshop mentioned earlier, CWS initiated



- a training Camp on Safe Motherhood at Dhindhua-Aguna village, on 10 September 2006
- a 6-month training programme on embroidery, rope-craft and crochet during November 2006
- a study on “Prevalence of Anemia caused by Iron-Deficiency among Adolescent Girls at BITS, Pilani and its Impact on their well being “ during October 2006

For details, please log on to

<http://discovery.bits-pilani.ac.in/Others/cws/index.htm>

My India

This semester marked the beginning of planning and implementation of new projects under two heads – education and employment generation. Recognizing the importance of SHGs, (Self Help Groups), it took up the initiative of promoting this concept in nearby villages and for such purposes



the Rural Technology Club, a new wing of My India, started this semester. A new Gyan Bodh was set up in a nearby village, Raila. During OASIS, a stall was set up to market the products of My India projects. It also assisted a full-fledged NGO, 'Pratham' in conducting an educational survey of the entire Jhunjhunu district.

BOSM 2006

This year too, the BITS Open Sports Meet was held in the month of September and was a huge success. The annual sports fest took place this



year during 14 -17 September. Apart from the usual Gym Grounds being used for various events, this year saw a remarkable change as the newly constructed Students' Activity Centre played venue to the indoor events of TT, Badminton and chess. The festival was also

successful in that it saw a sudden rise in the number of non-BITSian teams taking part.

More than 900 out-station participants from all over the country came to take part in various events.

The festival also saw many accolades being won by the home team and in fact, a highly contested 100m boys' race saw the top three teams go very close to the national record in sprinting.

OASIS 2006

OASIS 2006, the Annual All India Cultural Festival organized by BITS witnessed a large number of colleges visiting the campus and contesting in various events. The inauguration ceremony started off with a CCTV presentation and was followed by inauguration by an eminent filmmaker and BITS alumnus, Mani Shankar, who inspired the audience with his speech. Next were the amazing performances by the Mime and Dance clubs. The rest of the three days were filled with



a gamut of competitions and events. The events in the auditorium were the major crowd-pullers like Blab, Choreo and Razzmatazz witnessing huge audiences. Rocktaves, the annual rock music event, saw a plethora of bands competing with each other for the first place. Three bands, Mrigya, Indian Ocean and Moksha, unleashed their performances in the professional shows in





front of crowded audiences in the auditorium. As usual, the M-Lawns saw an array of stalls put up, like the major ones were JAM (Just Another Magazine), Mentos and Red Bull. The lawn opposite FD-III was the venue for the Dance Floor organized by Nescafe and served as a platform for people dancing all through the night and added great colour to the fest.

The presence of MTV as a sponsor to this festival added a touch of glamour to the event. It was all around campus involving BITSians and non-BITSians alike in their 'Kya Baat Hai' show. Also, for the first time, a Dance Workshop was held with Vishal Kanoi, famous choreographer, instructing students on the intricacies of Salsa and Jive. The fashion parade was held on the last day of Oasis and saw models from BITS and several colleges walk the ramp and vie for the first place.

SPICMACAY

The activities for this semester commenced with an enchanting Kathak dance performance by Kumari Mahuva Shankar, a disciple of legendary Birju Maharaj in the Institute's Auditorium on 8th September 2006. The Performance enthralled the audience by showcasing different varieties of Kathak dance. The second event of the semester was a scintillating Star Recital by Shri Shubhendu



Rao follower of renowned Pt. Ravi Shankar and one of the leading instrumentalists of India on 27th October 2006. A disciple of sitar maestro Pandit Ravi Shankar, he has been acknowledged by connoisseurs as a worthy successor to his Guru's tradition. His performance in the BITS Auditorium was a scintillating one appositely displaying his command on Music.

Matrix

Matrix-Mind and Thought in Radical Information Exchange touched new heights this semester by working in the direction of nurturing thoughtful ideas among students. Several book reviews were organized this semester also on well reputed books like Da Vinci code, Siddhartha by Hermann Hesse and last one was on the books 1984 and A Brave New World. All the sessions were really enlightening and various faculty members like



Prof Meenakshi Raman, Dr. Saby John participated in the sessions along with some students namely, Saikat Ray, Pallavi Roy, Sudesh P, Bodhisatwa Sadhu, Soumithra ramesh, Soumyadeep Ghosh, Snehlatha and Diwakar.

Mr. and Miss ENGINEER

Mr. and Ms. Engineer, a Personality Contest was organized by the Civil Engineering Association on October 8th, 2006. The title was presented to the Students after testing their Engineering Skills by subjecting them to various tests like Rapid Fire, Scrambles, Case Study, and Questionnaire rounds etc. The qualification of participants to the above rounds was done after a preliminary round, in which participants had to answer questions related to engineering. Lastly, there was also a Personality Contest round in which the top ten participants were asked questions to test their presence of mind and personality by the Judging panel. The winner walked out with the title and a cash prize of Rs.2000. The runner bagged the runner title and a cash prize worth Rs. 1000.

INTRODUCING NEW FACULTY

S.No.	Name	Designation	Discipline	Research Area
1.	Mr. Hanumantharao Ch	Lecturer	Civil Engineering	Geotechnical Assessment
2.	Dr. Kousik Deb	Lecturer	Civil Engineering	Soil-Structure Interaction, Ground Improvement, Numerical Modeling, Pile Foundation, Geosynthetics
3.	Ms. Sanghmitra Kundu	Lecturer	Civil Engineering	Environmental Engineering
4.	Ms. Rajitha K	Visiting Prof	Civil Engineering	Remote Sensing & GIS
5.	Mr. Syed Nasimal Alam	Lecturer	Mechanical Engineering	Nanomaterials Mechanical Alloying, X-ray Diffraction, Microscopy
6.	Mr. Indrajit Mukherjee	Lecturer	Mechanical Engineering	Quality Engineering & Applied Operation Research.
7.	Dr. Piyali Ghosh	Lecturer	Management	HRM, Strategic HR, Economics
8.	Dr. Vishal Saxena	Lecturer	Bioscience	Molecular Parasitology & Episcoplast
9.	Ms Jupudi Vasantha Madhuri	Visiting Prof	Visiting Prof	Bio-inorganic Chemistry
10.	Ms Geetalaxami Mahapatra	Visiting Prof	Economics & Finance	Environmental& Developmental Economics
11.	Dr. Ashish Kr. Upadhyay	Lecturer	Mathematics	Combinatorial & Algebraic Topology & Geometry of Low Dimensional Manifolds
12.	Dr. Bhupendra Kr. Sharma	Lecturer	Mathematics	Fluid Mechanics Newtonian Fluid, Laminar Flow, Porousmedium
13.	Dr. Biswanath Layek	Lecturer	Physics	Particle Physics & Cosmology (theory)
14.	Dr. Rishikesh D. Vaidya	Lecturer	Physics	Theoretical Particle Physics
15.	Dr.(Ms) Manjuladevi V	Lecturer	Physics	Soft Condensed Matter
16.	Dr. Navin Singh	Lecturer	Physics	Soft Condensed Matter (Theory)

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STUDENTS

Sunil Seetharaman, Adi Srikanth, Abhijit Jaikrishna, Avaneendra, Dushyant Sridhar

We wish to thank the faculty and students who have helped us in procuring data and photographs.

Please send your comments/suggestions/feedback to : <mraman@bits-pilani.ac.in>

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Prof. G. Sundar : Dean, Practice School Division

Prof. N.V. Muralidhar Rao : Dean, Student Welfare Division

Prof. Rajiv Gupta : Dean, Engineering Services Division

Prof. S. Gurunayanan : Dean FDII and Admissions

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BITS Pilani alumni launch "Project Embryo"

For interactive lectures through "We're for merit not quota, BITS Pilani writes to Arjun"

Special Correspondent

JAIPUR: BITS Pilani alumni have launched "Project Embryo" to offer live, interactive lectures and seminars with the help of internet-based video-conferencing.

Project Embryo is one of the killer applications of the gigabit backbone called Neuron, which provides the Birla Institute of Technology and Science campus at Pilani in Rajasthan with wide Internet and video-conferencing facilities.

- The project is applications of the gigabit called Neuron.
- It helps to bring global and emerging trends in science

which comprised about 25 lectures organised on an experimental basis in the last four months.

BITS Pilani to conduct online admission test

New Delhi: BITS Pilani on Sunday announced that its online admission test, BITSAT 2007 for admission to Engineering, Pharmacy, M.Sc and M.Sc (Tech) programmes will be conducted during May 10 to June 10 next year. BITSAT will be of three-hour duration and comprise four parts - mathematics, physics, chemistry and english proficiency and logical reasoning, a release said.

Students can choose the date and time of the test and their centre from the 16 centres across the country. The last date for submitting applications is January 31, 2007.

कर्मचारियों के लिए कार्य में सुधार का आर्थिक के रूप में जोड़ने आसानीका



Subodh Karnik, From BITS (Pilani), To Head ATA Airlines

SKY'S THE LIMIT

Working with a company of which you are proud is a great experience. The Sky's the Limit is a new initiative by ATA Airlines to provide a better work environment for its employees. The company has introduced several new initiatives to improve the work environment, including:

- A new office space with state-of-the-art facilities.
- A new employee stock option plan.
- A new employee health and safety program.
- A new employee training and development program.

Subodh Karnik, former Chairman of BITS (Pilani) and now Chairman of ATA Airlines, is the driving force behind these initiatives. He believes that a better work environment is essential for the success of any organization.



बिरला ने लिया अस्पताल का जायजा

बिरला ने लिया अस्पताल का जायजा... (Text continues with details about the acquisition of a hospital by the Birla group.)

BITS Pilani announces online admission test for 2007

Press Trust of India New Delhi, Dec. 17 BITS Pilani today announced that its online admission test, BITSAT 2007 for admission to Engineering, Pharmacy, M.Sc and M.Sc (Tech) programmes will be conducted during May 10 to June 10 next year.

TN Assembly passes Bill to abolish CET

BITS Pilani model to get around legal hurdle

The Tamil Nadu Assembly has passed a bill to abolish the Central Excise Tax (CET) on goods. The bill is expected to be passed by the state government in the next few days. The bill is a landmark step towards the abolition of the CET, which has been a major source of revenue for the state government. The bill is expected to be passed by the state government in the next few days.

शैक्षिक कार्यक्रम शुरू

पिलानी, 8 दिसम्बर (निस.)। बिट्स परिसर में शुक्रवार को बेसिस प्रोसेस इंजीनियरिंग विषयक शैक्षिक कार्यक्रम शुरू हुआ। कार्यक्रम के मुख्य अतिथि बिट्स उपकुलपति प्रो एलके माहेश्वरी, हिन्दुस्तान जिंक लिमिटेडके सीनियर मैनेजर नरेन्द्रन, संयोजक प्रो. जी सुन्दरम आदि ने कार्यक्रम का शुभारम्भ किया। कार्यक्रम संयोजक डा.मीनाक्षी रमन ने स्वागत भाषण दिया तथा प्रो. बीबी बाबू ने कार्यक्रम की जानकारी दी। कार्यक्रम में हिन्दुस्तान जिंक लिमिटेड उदयपुर के कर्मचारी भाग ले रहे हैं।