

Thapar Times

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Le Bulletin Officiel De L'Université Thapar



Thapar University ranked among India's top engineering institutes

In a yet another feather in its cap, Thapar University, ranked among India's best institutes by independent research organizations, has emerged as the only engineering institute north of Delhi to figure in the list of top 25 engineering institutes released by India Today for 2013. By doing this Thapar University has retained its mark as a premier institution of the country. While Thapar University has secured 18th rank in the India Today survey, it has been rated 6th in the category of 'Top Engineering Colleges of Super Excellence' in the Global Human Resource Development Centre (GHRDC) Competition Success Review (CSR) Engineering College Survey. Furthermore, the university has been ranked 2nd in the GHRDC-CSR survey for top private engineering colleges in India.

Maintaining that these recognitions would go a long way in enhancing the reputation of Thapar University (TU) as one of the best engineering institutes in the country, TU Dean (Resource Planning and Generation) Dr R.S. Kaler said, "Given our focus on quality research, we will figure in the global rankings in due course as these rankings give more weightage to research." TU Director, Dr K.K. Raina congratulated the faculty and staff, saying, "With the efforts of each member of the TU fraternity, we will surely achieve the best in years to come."



Saturnalia 2013 - The Colours of India

Every year, Thapar University organizes Saturnalia, an inter institute cultural festival which is one of the oldest and biggest spectacles in North India and this year was no different. With an impetus given to Indian cultural values, the festival showcased a diverse range of events across four days from 21st to 24th March 2013. The events included everything from dances to plays, workshops to guest performances by various artists, colourful and vibrant in a way that was distinctly Indian. Contd on Page 7.

Spearheading change - Waste Management System

While many talk of creating change, students of Thapar University are actually leading one. Passionate about environmental change and sustainable development, they have initiated a 'Zero Garbage Solutions Project' to address the waste management challenges of the University, especially targeting food wastes and biodegradable wastes. Contd. on Page 5.



A good newspaper, I suppose, is a nation talking to itself.

- Arthur Miller

PREFACE

Director's word

It gives me immense pleasure to know that the faculty and students of Thapar University, Patiala are bringing out a newsletter dedicated to cater to the happenings and accolades shared by the university fraternity. A need was felt for such a compendium of events to showcase the academic and co-curricular achievements over a period of six months. As you go through the pages of Thapar Times you will find the wondrous number of instances where the students, faculty and staff members have participated and brought laurels to their institute.

Flipping through the pages of Thapar Times, I was happy to note that we have achieved significantly during the tenure of six months. I hope that the achievements in the coming times overflow the pages earmarked for this edition.

I congratulate the team of students and faculty members for their initiative in publishing this newsletter. I sincerely hope that the tradition of sustained journalism and abject determination continues in the right spirit, and we get to read many more informative editions of Thapar Times in days to come.

(K. K. RAINA)

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Table of contents

Glimpses	1	Colloquium	11
Preface	2	Connections	12
Academe	3	Thaparand World	13
LMTSOM	4	Eclectiza	14
Ecoprint	5	Eclectiza	15
Cultural Cadence	6	Researchata Glance	16
Saturnalia	7	Alumni	17
Inquest	8	Spotlight	18
Inventory & Pedagogue	9	Snippets	19
Placement & TEQIP	10	TUSports	20

From the pen of the Editor

All of us are very used to getting information about the happenings on campus, in bits and pieces though, from one or the other source, by word of mouth or through a penned down article, some even rumors. As we, a motley bunch of enthusiastic students and faculty members sat down deliberating, looking for ideas as to how to chronicle the happenings on campus, the first thing that came up for discussion was the name of the chronicler. The often used cliché, 'what's in a name?', also starting doing rounds in the discussion. But, the name was important.

It was only after due deliberation that we zeroed in on the name of the first edition of the University's maiden official newsletter, now christened Thapar Times. The title is simple enough, literal definitions of words stringing together to form a coherent and obvious meaning, evidently, the newsletter is a documentation of the life and times at Thapar University. But contained in the name is also the less apparent; time is the one seamless independent constant against whose backdrop we weigh our very lives.

Although eternal, unbiased and unchanging itself, time – or rather, its passage – is the ultimate catalyst for change, or rather, changing times. It is with this motivation that this newsletter and its future editions, attempts to canvas the events and happenings on campus, taking generously from all spheres to give you a compendium that is complete in its succinctness.

As is evident from the cover page, this is going to be a bi-annual affair. This issue presents the information pertaining to the period January to June for the current year. In this issue, there is everything from information about varied and vibrant student activities taking place on campus contained in Eclectiza, to research communications from the faculty showcased in Inventory and Pedagogue. It is through alliances that we grow and Connections gives a bird's eye view of the MOUs signed and partnerships established by the University in recent times.

It is hoped that as you flip through the pages, you find sections equal parts informative and entertaining, a sojourn to remember, for this is but a promise of future editions to come.

Read on!!

Maneek Kumar

Everything has beauty, but not everyone can see.

– Confucious

Academic Programmes

The University offers academic programmes at the undergraduate level leading to B.E./B.Tech degree, at the postgraduate level leading to MCA, M.Sc, MBA, M.E./M.Tech degrees, Dual degree program, BE-MBA and at the doctoral level, Ph.D and D.Sc degrees.

The salient features of the programmes are semester-wise credit system (trimester for MBA), letter grades, continuous assessment, students' performance, course-wise promotion and the flexibility to allow the students to select courses and move on to higher studies suited to their ability, capacity and interest.

Thapar University revises its curriculum every four years and the process for the latest revision started with the formation of a committee in April 2013. The faculty members from the university along with experts from academia and industry participated in the deliberations and the scheme of common courses to be offered to the undergraduate students of engineering was finalized. The scheme is set for adoption in the next session starting July 2014.



Scholarships

Thapar University scholarship scheme widens scope for meritorious students. In another step towards attracting the best talent for its engineering courses, TU has introduced many 100 new UG scholarships across all streams from the session starting July 2013. Full tuition fee waiver is proposed to be provided to the top three students of each PG programme. The toppers of respective boards from six zones are to get full tuition fee waiver for MBA programmes and the first two toppers of the recognized Boards of India in the exams held in 2013, shall be given direct admission to the first year of UG programme i.e the entrance test score of such students shall not be required for admission. More details are provided in the boxes below.

PG programmes

The top three students of each postgraduate programme are eligible for scholarships in the form of tuition fee waiver. While the topper will get full waiver on tuition fee, students securing the second and third positions will get a tuition fee waiver of 50% and 25%, respectively. To facilitate the study of needy students, the university has decided to offer eight merit-cum-means scholarships in all postgraduate programmes.

UG programmes

As many as 100 new scholarships have been introduced for undergraduate courses in the coming session. The top 50 students out of the first 5,000 All-India JEE (Main) rank holders (normalised score of 10+2 will be taken into account) will get full fee waiver of Rs 93,000 per semester, including tuition and development fees. The next 50 students in the All-India ranking up to 12,500 will get full waiver of Rs.62,000 per semester on tuition fee. The students will be entitled to meritorious scholarships for all four years of their study, subject to the condition that they maintain the cumulative grade point average (CGPA) of 8.5 without any backlog. The top two rank holders of all secondary education boards will get a complete waiver of Rs 93,000 per semester on tuition and development fees.

Twenty-five scholarships in the form of tuition fee waiver are being offered to students securing more than 90% marks in the secondary school examination. They will receive the benefit for all four years of their study provided they maintain the CGPA of 8.5 without any backlog.

Besides, the top three students of each branch of B.E./B.Tech will be awarded merit scholarships every year equivalent to their tuition fee. The university has also decided to assist needy students through six annual merit-cum-means scholarships, under which their entire tuition and development fees will be waived. Additionally, 25 sponsored scholarships, including alumni scholarships, will be awarded to students of various categories.



Study hard what interests you the most in the most undisciplined, irreverent and original manner possible.

- Richard P. Feynman

Thapar University to launch new campus in Chandigarh

In the coming few months, Thapar University will start offering business management courses from its new campus at Derabassi in Mohali, under the aegis of the Lalit Mohan Thapar School of Management (LMTSOM). By combining multiple economic and social models together with technology, LMTSOM represents the leading edge in management education, and will form the backbone of an improved and region-wide education network.

Located on 26 lush, green acres away from the hustle and bustle of the city, the LMTSOM campus offers the perfect environment for study. The new campus boasts of modern state-of-the-art infrastructure, and advanced facilities for both curricular & extra-curricular activities for the overall development of students.

Dedicated and qualified faculty ensures a high standard of teaching, learning and evaluation processes, with a blend of traditional and modern teaching techniques. The sequential pattern in teaching and learning is being replaced by a concept flipped classroom pattern. This new pattern will be the key feature of the school and technology will be the catalyst in realizing the flexibility and mobility. It is planned to provide video conferencing facility to professors from their chambers in form of IP phones. Audio traffic will be prioritized with proper voice LAN/internet configurations.

Dr. K.K. Raina, Director, Thapar University explains that the new campus will contribute to producing quality professionals in technology management to compete and excel globally. The education system at LMTSOM will inculcate entrepreneurial values to free young minds from risk aversion. Faculty will advocate interdisciplinary research and multidisciplinary education. While upholding a high ethical standard, LMTSOM will forge robust industry – institute relations, thus forming the bedrock of a new era of techno management education in India.



LMTSOM has a new Director

Dr. Padmakumar Nair, an eminent researcher and management consultant of international repute, has been appointed as the Director of LM Thapar School of Management (LMTSOM) run by Thapar University.

Dr. Nair holds a Ph.D from the University of Twente, Netherlands, a Doctorate in Engineering from the University of Tokyo, Japan, an MBA from Heriot-Watt University, UK and an M.Tech in metallurgical engineering from IIT, Kharagpur.

Dr. Nair, who has to his credit more than 50 research papers in international journals and over 1,500 citations in academic journals, has worked both in academia and industry. He has an illustrious experience of over 25 years in diverse industries from oil and gas and education to consultancy and advanced R&D. He holds a US and a world patent in the area of converting natural gas into useful petrochemicals. Dr Nair specializes in organisational leadership, entrepreneurship and nanotechnology and is a visiting scholar at the University of Cambridge (UK), University of Twente (Netherlands), Chonnam National University (South Korea) and Wuhan University (China).

Speaking about his new role, Dr. Nair said, "Heading this reputed institution is a matter of great pride for me. We intend to make this business school the most entrepreneurial school in the nation. We want to develop a new breed of innovative manager-leaders who are not only ready to occupy important posts in global corporations but can also emerge as founders of great corporations in the future. Millions of good jobs are waiting to be created, and our MBA graduates are the ones who will create them."



A manager is not a successful manager until he succeeds in managing managers successfully.

– Ram Mohan



Waste Management System

Contd. from page 1. Carried out by student members of International Forum for Leadership and Sustainability– IFLS chapter of Thapar University, the launch of the project was presided over by Dr. K.K. Raina, Director TU and Dr. Seema Bawa, Dean of Student Affairs of the university.

The pilot project aims to manage almost 125kgs of food waste produced in Hostel J using innovative decomposition techniques. The waste is first segregated into cooked and uncooked food streams and is then crushed in a motor driven crusher, which is then fed to a 'Roli Poli' composter. The project is being carried out in partnership with Greenbanchu Ecosolutions– a Delhi based waste management technology provider. The first batch of compost takes about 45 days, after which the process becomes continuous, with food waste put in and

compost procured at the other end. The major process takes place in the Roli Poli composter which is a compartmentalized drum and works like a screw. As a result the process never stops as the composter never completely fills up.

The project will have a long term impact on students in sensitizing them towards issues of food security and waste management and will encourage more young people to actively understand environmental problems.

Thapar University organises 'Environmental Convergence'

Patiala, 30th April'13: Thapar University, organised "Environmental Convergence", a two day workshop to coincide with the week-long global World Earth Day. The two day workshop witnessed wide participation by eminent people from various environmentally active governmental and non-governmental organizations.

The University's School of Energy and Environment in association with Paryavaran Welfare Society and International Forum for Leadership and Sustainability, conducted multiple seminars whose key objective was to spread environmental awareness, understand the societal and environmental impact of professional engineering solutions, and the need for sustainable development, attitudinal changes as well as to find solutions for conservation.

The event was inaugurated by Dr. Baburam, Member Secretary of the Punjab Pollution Control Board and was followed by many activities including plantation drive, brain storming sessions, panel discussions, public lectures, workshop on Ecological Sanitation and presentations.

Mr. Shamshir Rai Luthra, Environmentalist from New Delhi enlightened the audience with a talk on the theme 'think-eat-save' and gave importance to conservation of mother earth.

Baba Balbir Singh Seechewal, an eminent environmental activist, while speaking on this occasion said, "We should work sincerely in reviving the drains that have been polluted due to extensive urbanization and industrialization."

"Centre of Excellence" in Environment & Energy Management

There is a need to have an integrated approach to solve environment and energy related problems, especially in small scale industries which form the backbone of the industrial structure in the state of Punjab. Thapar University at Patiala has already taken initiatives in this direction – running PG degree programmes and conducting training programmes in related areas to produce trained engineers to assist the industry. TU has also started research projects on (a) pollution prevention and control; advanced treatment techniques like photocatalytic treatments of 'difficult to treat' effluents, bio-sorption of toxic pollutants from the effluents; (b) utilization of industrial wastes in the production of useful products like carbon adsorbents, bio-cements (environmentally safe cement for sealing the cracks and improving the life of structures), etc.; (c) bio-degradability study of plastics; (d) carbon dioxide capture for sequestration; (e) study on stubble burning in fields on environment & human health; (f) development of alternate energy sources like biodiesel, solar photolytic cells, etc.

Having already created infrastructure in terms of faculty and basic laboratory facilities for these activities, the University needed strengthening of infrastructure, up-scaling of PG teaching and research to provide well trained engineers to the industry and serve it better in providing a total solution to the problem. Resultantly, Thapar University's proposal to establish a Centre of Excellence on Environment and Energy Management (of SMEs in Punjab) has been approved by the World Bank and shall get a funding of Rs. 5 crores for setting up the same.

What's the use of a fine house if you haven't got a tolerable planet to put it on?

– Henry David Thoreau

CULTURAL CADENCE

Izhaar

Organized by the MUDRA society, Izhaar was held in the University Auditorium, by the Mudra society from February 26 to March 1, 2013. Izhaar is a competition amongst the 1st Year, 2nd Year, 3rd Year and Post Graduate students. The most responsible students from their respective years were chosen as the Year representatives. The main motive of the festival is to promote interest in Indian literature and culture among students and to instil a spirit of respect by mutual competition and admiration.



The cumulative scores of the competitive events, on the whole, decide the most culturally sound year which wins the coveted Izhaar trophy. Students from various years performed to a packed house for over four days of cultural magic. The crowds just continued to pour in as a footfall of over 2000 students, teachers and parents was recorded. While the Final Year students were mostly busy organizing the whole event, they took out some time to give scintillating bowing-out guest performances.



SUR

MUDRA society organised the SUR night on 25th April. With over thirty performances lasting over three hours, it was a very interesting event to organise. Meticulous rehearsals and prompt organisation led to its successful staging in the auditorium. With its brilliant appeal, SUR managed to bring out the best of Thapar University's musical scenario, with the performances ranging from Aerosmith to Coke Studio and from rapping to gripping instrumentals. The final year students, who largely organised it, took their bow with a brilliant rendition of Carnival of Rust in the end, which had every member and every performer joining them on the stage.



NOX



The official Dance Club of the varsity, 'NOX' organized a fun-filled and enthralling NOX night on February 7, 2013. Known for their elite dancers and spectacular performances, NOX nights have always stood for perfection. The students prepared various dance forms to accentuate their artistic passion. These included Hip Hop, Popping & Locking, Bollywood Style and Classical. It was an enrapturing, entertaining, and amusing hour, full of joy and dance.

Those who dance are considered insane by those who cannot hear the music.

– George Carlin

SATURNALIA



Contd. from page 1, Thapar University hosts a wide array of different cultural and technical festivals or 'fests', as they are popularly denoted by the student masses. Saturnalia is the official festival which caters to the cultural sensibilities and is organised every year in the season of bloom. Based on the vibrant theme of "colours of India", Saturnalia 2k13 began on 21st March 2013, with the aim of highlighting the lustrous Indian culture and tradition.

The inaugural night was as diverse as the fest itself, with the stage being shared by traditional Gidda performers as well as by Rock Bands. The glitterati form an integral part of every cultural event and they were represented by models from various parts of India, participating in the fashion show.



Saturnalia's second day was a tribute to the upcoming talents in the state in the field of music. Jassi Jasraj, Shubh Raj, Rituraj and many more artists relatively new to the music scenario graced the occasion with their performances. They showcased their vocal prowess with many originals and some covers.

Akcent, a Romanian band pioneering in electro music, was the act that made Saturnalia 2k13 really special. Amidst avid preparations by the organising committee, the band showed up in front of a jam-packed Open Air Theatre and absolutely dazzled the crowds. However it was not only the performance which made the day special. Immolation, one of the largest gaming events in North India, had its finals on the 23rd. The attendees of the fest were treated to a spectacle, with camel rides and stalls proving to be great crowd pullers.

The spectacle ended on 24th with the prize distribution and a very special Punjabi night. Amrinder Gill, the beloved vocalist, brought the crowd to its feet. With the core team taking a final bow, it indeed lived up to its promise, of being "the largest fest in North India".



Without culture, and the relative freedom it implies, society, even when perfect, is but a jungle. This is why any authentic creation is a gift to the future. – Albert Camus

Braille Publications

Thapar University facilitates study of blind students by processing of text book to Braille. A team of faculty and students of Computer Science and Engineering Department of Thapar University, under the guidance of Dr. Parteek Bhatia, has processed the Seventh standard Punjabi text book of Punjab School Education Board in to Braille. On 9th May 2013, Sh. J. S. Neerav, Vice-Chairman BOG of TU, in company of other functionaries of TU, handed over Braille Hindi text book of seventh standard in two volumes to Patiala School of Deaf, Dumb and Blind.

Robotics Society

Robotics society organized a guest lecture on robotics manipulator design and applications on 15th January, 2013. Mr. Ramesh Kumar Modi, Scientist-H (retired) from BARC, Mumbai was the resource person for the talk, who also happens to be an alumni of Thapar University(1964 batch).

Mr. Modi who has had a very long association with BARC, Mumbai, where he served from 1968 to 2007, gave an elaborate talk on various aspects of robotics including robotics design, special features required in robotic manipulators for nuclear and defense applications, along with the history of Robotics division of BARC at Mumbai.

Workshop on Research Methodology

Patiala, 6-7th June '13: The workshop was inaugurated by Dr. K.K. Raina, Director, Thapar University, Patiala. In the inaugural address, Dr. Raina highlighted the significance of quality of research in the current academic scenario. Such workshops with exposure to analytical skills provide an impetus to quality research.

Dr. (Ms.) Ravi Kiran, Professor & Head of School of Behavioral Sciences and Business Studies organized and coordinated the workshop. The workshop's primary focus was on imparting data analytical capabilities to the faculty, business analysts, research scholars, and post-graduate students, who want to enhance the quality of their work by using statistics for research and detailed univariate, bivariate and multivariate analyses.

The workshop accentuated the steps that a researcher is required to follow while conducting a research study. This would serve as a learning platform where budding as well as experienced teachers would explore and analyze their own educational practices systematically and put these techniques to effective use in their classroom teaching.

Prosodically guided Phonetic Engine

A two day workshop that was organized by School of Mathematics and Computer Applications, Thapar University, during March 9-10, 2013 focused on evolving Systems and Subsystems for developing a Phonetic Engine and a Search Engine as a part of an ongoing consortium project under the Ministry of Communications and Information Technology, Government of India. The development of phonetic engine shall yield to a situation wherein a machine shall be able to convert a speech signal into symbols automatically. These symbols may include phonetic description or other prosody knowledge. The development of a search engine shall accomplish the task of searching some key words into a reference speech database.

This workshop included six technical sessions. Apart from discussing the progress of the project, these sessions mainly focused on how to develop systems and subsystems for phonetic engine and search engine. Workshop was attended by 39 participants from different participating institutions.

Expert Lecture on RNAi Technology

An expert lecture on "RNAi Technology: A New Platform for Crop Improvement" was organized in the DBTES on 11th Feb. 2013 with Prof. M.V. Rajam, Head, Department of Genetics, University of Delhi, South Campus, New Delhi as the speaker.

Prof. Rajam discussed the importance of RNAi and small interfering RNAs in modification of important characters in crop plants. Major highlights of the lecture were development of blue rose, enhancement of shelf life of fruits and vegetables and vase life of flowers. Further, use of this technology in developing disease and pest resistance in plants was discussed.



We are all wonderful, beautiful wrecks. That's what connects us that we're all broken, all beautifully imperfect.

- Emilio Estevez

INVENTORY

Doctoral theses completed

- Effect of Electrical Conductivity and Spatial Variability of Soil on Crop Productivity", School of Physics and Material Science.
- Photocatalytic Treatment of Textile Effluent", Department of Chemical Engineering
- Reliability Modeling and Analysis of Some Process Industrial Systems", School of Mathematics and Computer Applications
- In Vitro Clonal Propagation of Some Important Woody Bamboos and Ascertaining their Clonal Fidelity", Department of Biotechnology and Environmental Sciences
- Strength and Durability Studies of Concrete Containing Waste Foundry Sand", Department of Civil Engineering
- Reliability Analysis of Some Industrial Systems in Crisp and Fuzzy Environments", School of Mathematics and Computer Applications
- Development of Biosensor for Heavy Metal Detection", Department of Biotechnology and Environmental Sciences
- Investigations on NiZn Ferrite-PZT Composites", School of Physics and Material Science.
- Lie Group Applications to Some Nonlinear Systems", School of Mathematics and Computer Applications
- A Strategic Framework for Corporate Social Responsibility Practices. A Study of North-West Region of India", School of Behavioral Sciences and Business Studies.
- QoS Based Resource Provisioning and Scheduling in Grids", Department of Computer Science & Engineering.
- Synthesis and Characterization of Ferrite-Ferroelectric Composites With Rare Earth Substitution", School of Physics & Materials Science.
- Development of a Model for Marketing Information System (MIS) for Small and Medium Enterprises (SMEs) in Punjab", School of Behavioral Sciences and Business Studies
- Design of Algorithms for Gene Predictions", Department of Computer Science and Engineering.
- Influence of Bacteria on the Permeation Characteristics of Concrete Made with Supplementary Cementing Materials", Department of Biotechnology & Environmental Sciences.
- Some Geometric Aspects on Submanifolds Theory", School of Mathematics & Computer Applications.
- Molecular Studies on the Starch-Granule-Bound Protein (R1 Protein) and Genetic Approaches for its Inhibition in the Potato Tubers", Department of Biotechnology & Environmental Sciences.
- Molecular Studies on Soluble Acid Invertases in the Potato (*Solanum Tuberosum* L.) Tubers", Department of Biotechnology & Environmental Sciences.
- Synthesis and Characterization of Mn₃O₄-La₂O₃ Nano Composites for Thermistors", School of Physics and Material Science.
- Discontinuity Analysis for the Treatment of Lumped-Parameter Systems for Singular Inputs", Department of Chemical Engineering.

PEDAGOGUE

Foreign visits by faculty

- Dr. S. K. Mohapatra, Senior Professor, MED and Mr. Satish Kumar, AP, MED visited Widener University, Philadelphia (USA) in March 2013 to participate in an international conference.
- Dr. K. K. De, Professor, LMTSOM and Dr. Ravi Kiran, Professor, SBSBS visited Trinity College, Dublin in April 2013 to explore the possibilities of collaboration with their Management School.
- Dr. Maneek Kumar, Professor, CED; Dr. Shweta Goyal, Assistant Professor, CED & Mr. Tanuj Chopra, Assistant Professor, CED visited Tokyo, Japan in May 2013 to participate in First International Conference on Concrete Sustainability.
- Dr. Rafat Siddique, Senior Professor, CED visited International Institute of Water & Environment, Burkina Faso in June 2013 as an invited speaker.
- Dr. M. S. Reddy, Professor, BTESD visited University of Lyon, France as a part of the Indo-French collaboration in June 2013.
- Dr. K. K. Raina, Director, Thapar University, visited Technical University, Germany as a part of bilateral scientific cooperation with German Science Foundation in June 2013.
- Dr. Manoj Sharma, Associate Professor, SPMS, visited Florence, Italy in June 2013 to participate in an international conference on Nuclear Physics.

Invention, it must be admitted, does not consist in creating out of void but out of chaos

- Mary Shelley

PLACEMENT PROFILE

Thapar University has a dedicated placement centre named 'Centre for Industrial Liaison and Placement' which acts as an interface between the industry and the institute. Carrying on with its trend of providing quality placement to its students, the placement cell of the university is leaving no stone unturned. Till June for the year 2012-13, about 103 organizations have taken 652 students from various disciplines of engineering including Master of Engineering, MBA & MCA. Major organizations which visited Thapar University for campus placements this year include global and Indian marquee brands like Google, Futures First, Microsoft, D.E. Shaw, Informatica Corp., Texas Instruments, MMT, ZS Associates, Goldman Sachs, American Express, Deloitte Consulting, Oracle, TCS, HP, Amdocs, Fidelity, CSC, ST Microelectronics, HCL Group, IBM, Wipro, Maruti, Eicher, Trident, Samsung, LG, John Deere, ABB, Whirlpool, Tata Motors, Hero Motors Corporation, Cummins, UOP, Escorts, L & T,

Mahindra, Flour Daniel, Gammon, Shapoorji Pallonji, Punj Lloyd, Accenture, ACC, Reliance Industries, Idea Cellular, Siemens, Panacea Biotech, and Ranbaxy, among others. The branch wise breakup of placement for both undergraduate and postgraduate students is as below -



■ BT ■ CE ■ CH ■ CS ■ EE ■ EC ■ EIC ■ MECH ■ BE.Ind

TEQIP

Significant achievements under TEQIP –II

- TEQIP-II paved way for the introduction of new PG programmes that include M.E. Information Security, M.E. Wireless Communication and M.Tech. Biotechnology.
- 50 scholarships were awarded to Non-GATE M.E./M.Tech. students admitted in July 2012. 8 full-time Ph.D. students admitted in January 2013 were also awarded scholarships. Procurement of approved equipment was initiated for Rs. 1.5 crores.
- Prof. R.S. Kaler and Prof. Maneek Kumar attended Management Capacity Enhancement Training at IIM, Kozhikode during 12th-22nd March 2013.

Workshops/Seminars organized

- A workshop on FDP Machine Learning was organized by CSED from 25th Feb 2013 to 1st March 2013.
- A workshop on III Interaction was organized by CILP on March 18, 2013.
- MED organized a workshop on FDP Advanced Robotics Design during 21st-23rd March, 2013.
- Academic workshop of faculty was held on April 09, 2013 which was coordinated by Dr. S.K.Mohapatra and Dr. Maneek Kumar.
- A workshop on curriculum review of UG programmes was organized by ECED/SBSS on April 10, 2013.
- Dr. Deepak Garg organized a one day workshop on "Outcome based Accreditation and NBA-SAR Evaluation" at Thapar University, Patiala on 19th April, 2013.
- Dr. Deepak Garg organized a four day workshop on "Identifying and training potential Stakeholders/Master Trainers/Evaluators for NBA new outcome based format" at Thapar University, Patiala on 29th April, 2013 and 9th to 11th May, 2013.
- CHED organized a workshop on MATLAB for Chemical Engineers during 3rd - 5th June, 2013.

The best way to predict your future is to create it

- Peter F. Drucker

आईना

आज कुछ तेज़ है सासों
खुली हैं अरश को बाहें
दीदार तेरे की आमद में
बिछी हैं फर्श पे आँखें

शाखों ने त्रिशङ्गी छोड़ी
पत्तों ने ओस है ओढ़ी
मुस्कुराने की चाहत में
मैंने हर माबद है तोड़ी

कितने राज हूँ पहने
कितने ही नाम हूँ पहने
वसले-कयामत की आमद में
शीशे के ख्वाब हूँ पहने

राह ने मंजिल है पहनी
फूलों ने चुभन है ओढ़ी
तुझ तक पहुँचने की चाहत में
रूह ने साँसे हैं ओढ़ी

ऑगन से जुड़े यह सब रिश्ते
चलते हैं साँसों के रस्ते
पहनेगा कब तक ए वाईज़
अँधेरे ख्वाबों के बसते

बुतों को बाँध मत रखो
रूह आज़ाद तुम रखो
लिबास फुसत के पहनो
तरन्नुम में गीत कोई गाओ

माबद means place of worship

- Maneek

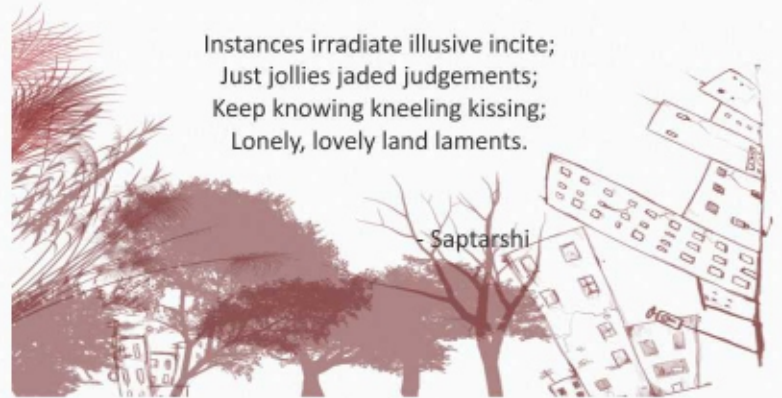
Red Land

A poem which speaks of the "Lal Matir Desh", or The Land Of the Red Soil, that is my homeland. Where the conch calls brings the day to a close, and the gentle flowers welcome anyone. Its beauty and elegance has blemished throughout the ages and now it's a figment of imagination for its natives. It is my tribute to this wonderful land...

Astounded arrays all aloof;
Barefoot brooding boys beckon;
Choirs chanting cyclic calls;
Drab dim daylight drawn.

Emoting elegy, essays erode;
Feminine flowers float free;
Great gusts gale galore;
Hidden hymns, haggard history.

Instances irradiate illusive incite;
Just jollies jaded judgements;
Keep knowing kneeling kissing;
Lonely, lovely land laments.



- Saptarshi

Desolation's Decree

We're on this dangerous edge about to fall,
Or maybe it is an illusion of my delirious mind?
But you're counting away, unconcerned by it all,
Or maybe you're just pretending to be blind?

Everything is crashing, burning, crumbling to ash,
I'm hearing her pleas and I'm helpless and alone,
But you can't hear us over the sweet jingle of your stash,
Or maybe you can, but choose to ignore and condone?

Water's yellow, soil's grey, tree's blue, sky's black,
She's fading away and heartrending are her choked cries,
But you're completely oblivious, a hostage of moral
hijack,
Or maybe you're just trapped in their masterful web of lies?

I'm sinking, this despair is too much to handle,
Everyone seems to realize that her demise spells our own,
But still you callously continue to snuff out every candle,
Or maybe you just don't care and your heart's turned to stone?

Or maybe you've concurred to follow the beaten, rotten track,
Or maybe you've simply lost the will and feel it's pointless to abstain,
Or maybe you've decided it's already too late to stage a comeback,
Or maybe you've killed your humanity to save yourself some pain.

I refuse to believe that a shell of you is all that's left,
I refuse to accept our dreams are destined for an untimely death,
I refuse to believe that of your soul you've become bereft,
I refuse to give up; I'll call to you till my very last breath.

Please don't leave me in this desolate state,
We'll all be long gone at this rate,
Please open your eyes before it is too late,
I need your help to save our fate.

Wake up.

-Nidhi

Poetry is nearer to vital truth than history.

- Plato

CONNECTIONS

Existing MOUs

Participating Institution	Purpose and Offer
Secure Net Technologies	To set up "Centre of Excellence", and offer various courses on security such as security-5, network-5, ECSS & CEH
Wipro Technologies, Bangalore	Project campus initiative - Wipro provides facilitators, trainers and training collaterals for jumpstart-1 and jumpstart-2, Wipro provides profile requirement of the faculty to conduct the session, student course materials, and LAB handouts.
Trinity College, University of Dublin, Dublin	<ul style="list-style-type: none"> • Two faculty members of CED are members of Ireland - India Concrete Research Initiative (IICRI), of which Trinity College Dublin is the partner from Ireland. • A joint research project is already in the advanced stage of being finalized and shall be sent to funding agencies for research grant. • A TU student Mr. Ram Gupta of M.E. was in Trinity College Dublin as a part of the MoU for a period of four months. He was jointly guided on his research project (thesis) by faculty members from both the universities. He is also being awarded a joint scholarship both by TCD and TU.
Crompton Greaves Ltd. Mumbai.	<ul style="list-style-type: none"> • One ongoing project - "PREPARATION AND CHARACTERIZATION OF POLYMER/CERAMIC FIBRE AND CELLULOSE COMPOSITE PAPER FOR ELECTRICAL INSULATION" by Dr. Rajeev Mehta • Two more projects are in pipeline. • Six M. Tech students are sent for one year project training - June 2013
ISA Group Lille, France	Student Exchange and Faculty Exchange with Biotechnology Department. The activity is being coordinated by Dr. Abhijit Ganguli. Scholarship for more than 100 students from Indian and French Governments. Ms. Moushumi Gosh had visited ISA Group Lille, France during the summer vacation.
TCS Ph.D Research MoU	<p>Ph.D research scholarship introduced for 4 years (Rs. 23,000 per month) and in addition, a selected student and his/her guide will be sponsored for one international refereed conference, and two national conferences in India, during the period of four years, if he/she has an accepted paper in the conference.</p> <p>TCS will award one-time Rs. 1 lakh contingency amount to TU for every student enrolled as a TCS Research Scholar to meet any incidental expenses related to the project.</p>

Proposed MOUs

Association of chartered certified accountants (ACCA), Dubai

Naveen Jindal School of Management, the University of Texas at Dallas, U.S.A and LM Thapar School of Management

The purpose of MoU is to have international certifications from ACCA in finance and management programmes. With these certifications the profile of the students will be enhanced and they will get more acceptability in the market.

The participating institutions shall select students to participate in the exchange program based on demonstrated academic achievement and completion of curricular prerequisites for participation

Prominent Visitors

1. Dr. Sanjeev Bedi, Professor of Mechanical and Mechatronics Engineering Department, University of Waterloo, Ontario, Canada visited the Department of Mechanical Engineering in June 2013 and delivered expert lectures in the area of design innovation.
2. Dr. Dusan Berek from Polymer Institute of Slovak Academy of Sciences, Bratislava, Slovakia visited the Department of Chemical Engineering to deliver talks on Polymer Liquid Chromatography and Porous Carbon Fibres in March 2013.
3. Dr. S Sharad Sontakke, a DAE-ICT Scientist, delivered a talk on Photocatalysis: An Advance Oxidation Technology in March 2013.

Science is simply common sense at its best, that is, rigidly accurate in observation, and merciless to fallacy in logic. - Thomas Henry Huxley

World Bank Visits Thapar

A team of World Bank officials visited Thapar University, Patiala to review the progress of TEQIP (II) project, on February 21, 2013. The team comprised of Dr. Avinash Pant, Vice-Chairman, AICTE, Mr. Kurt Larsen, World Bank Expert, Mr. S. N. Panda, World Bank Financial Consultant, Mr. Dubey, Ex-Professor, IIT, Kanpur and Mr. Sham Goyal, Deputy Director, Directorate of Technical Education, Chandigarh. Thapar University has been sanctioned an amount of Rs. 12.50 crores under the Technical Education Quality Improvement Program (TEQIP) Phase –II. The first installment of Rs. 2.00 crores was released on 10th December 2012.

The main goal of the TEQIP program is to scale-up and support ongoing efforts of the Government of India to improve the quality of Technical Education and enhance existing capacities of the institutions to become dynamic, demand-driven, quality conscious, efficient and forward looking; responsive to rapid economic and technological developments occurring at the local,



state, national and international levels. It has a clear focus on the objectives to scale-up postgraduate education and demand-driven Research & Development and Innovation,

establish Centers of Excellence for focused applied research, train faculty for effective teaching and enhance Institutional and System Management effectiveness. Thapar University,

Patiala is the only institute in Punjab which has been selected under component 1.2 of the project, with an objective to significantly increase enrollment in PG programmes in engineering disciplines and enhance engineering research & development and innovation.

The University had submitted two proposals to NPIU for establishing Centers of Excellence of which one has been sanctioned in the area of Energy and Environment Monitoring of SMEs of Punjab.

The meeting with the officials was presided over by the Director, Dr. K. K. Raina, TEQIP coordinator. Dr. S.K. Mohapatra, Dean Academic Affairs, presented the progress report.



Thapar University – A NBA Nodal Centre

Thapar University conducted a one day workshop on 29th April, 2013, which promises to be the first of many conducted under the MoU signed between Thapar University and NBA on 22nd April, 2013. Approximately 40 participants from various institutes participated.

National Board of Accreditation (NBA) has adopted the outcome based Accreditation Process for Engineering and Professional Institutions to become the permanent signatory of Washington Accord.

In order to explain the procedural nuances of the new system, a decision was made by NBA to organize the workshop. Thapar University, selected as a Nodal Centre by NBA, is one of 17 other such institutions throughout the nation. The aim of the nodal centre will be to act as resource institute to provide training to faculty and management of various institutions, wherein, TU will cater to those located in Chandigarh, Haryana, Himachal Pradesh

and J&K regions.

Thapar University will conduct various other workshops (2-3 days) in due course of time to train faculty and familiarize them with the NBA process. Under the MoU, NBA will widely publish calendar of events for every Nodal Centre and shall send observers for supervision of programme developments. All infrastructural and operational support to NBA for carrying out various programmes will be provided by the Nodal centre.

Dr K. K. Raina told that the government has decided to make accreditation mandatory for all higher educational institutes to improve academic quality, where accreditation involves assessment of colleges and universities against benchmarks set by the NBA. The procedure of NBA accreditation has changed and is now directed more towards outcomes rather than infrastructure and follows western ABET accreditation patterns.

A dream you dream alone is only a dream. A dream you dream together is reality.

- John Lennon

The Literary Society

The Literary Society of Thapar University is solely responsible for the dispersal and maintenance of literary tradition amongst the students of the university. It hosts a total of eight sub-societies which handle different aspects of literature. With a plethora of likeminded and free thinking individuals participating in the Quizzing and Debating societies, the pinch of the artistic is achieved with Muse, Poetry and the Theatre societies. A very special division, called Cineastes, handles the intricate art of film making whilst Anubhooti and the Punjabi Literary Society cater to the vernacular literary traditions of Hindi and Punjabi, respectively. The Literary Society conducted its inter-hostel literary festival from 30th April to 3rd May.

Students from nine hostels were pitted against each other and were organised into four teams competing for the coveted "Acumen Cup".

NASA Great MoonBuggy Race

"DAKSH-VYUH" is an elite team of students, aiming for global recognition. The team was realised in June 2011 and recognized in December 2011, when it made into the top ten colleges invited by NASA to compete in the 19th Great Moonbuggy Race. The rag-tag team surpassed all expectations in their very first go, by standing 2nd in Asia and 15th all over, with 93 highly competitive teams participating. The event was held at NASA US Rocket and Space Center, Huntsville.



Thapar Movie Club (TMC)

The Thapar Movie Club is responsible for the showcase of cinema in the varsity. The highly popular society arranged some showcases along with a few workshops on movie making. Cine Youth, the official fest organised by TMC, successfully proceeded right alongside Saturnalia.

AIIESEC School of Languages

AIIESEC (Thapar University Patiala) organised the Youth to Business Forum in collaboration with Thapar University on February 23, 2013. From interactive sessions to panel discussions, sharing of stories to business model designing workshops, all activities were focused on the importance of innovation, entrepreneurship, CSR, finance and marketing, as well as the basic motivation of following your passion. Parallel to this, a competition was held where the best business ideas of the participants were awarded the deal to earn investors for their projects.



Institute of Electronics and Telecommunication Engineers (IETE)

IETE organised Arithmania, a mathematics Quiz which tested people on their aptitude on 9th January 2013. Teams of 2 participated and the 1st, 2nd and 3rd positions were awarded. Two students from IETE went to participate in the competition conducted by Freescale India in February, 2013. IETE Students forum (Electronics Club) witnessed its own Mega-Fest during February 18-21, 2013 and events like Tooniverse, Tech-Quiz, Trash-o-Tron, Reverse Engg, Bulb-a-Toss were organised. The fest was a grand success with an overall participation of around 1100 students of Thapar University.

Pratigya Society

On the auspicious occasion of Basant Panchami, Pratigya Society organised innovative competitions of kite flying, rangoli, dance and singing in the auditorium and SBOP lawns. About 100 kids participated in these competitions. It also collaborated with NSS to organise a drawing competition for the kids on April 10th, to bring a smile on kids' faces at the beginning of the new session.

To live is the rarest thing in the world. Most people exist, that is all.

- Oscar Wilde

Team Fateh

Team Fateh, represents Thapar University's entry into the Formula SAE collegiate design series, a competition sanctioned by the Society of Automotive Engineers. Every year, they design, develop, build and race an open-wheel, open-cockpit race vehicle at Silverstone UK.



Thapar University's Team Fateh is currently undergoing its seventh year of competing at the Formula Student Competition. During these five years the team has been performing consistently and is ranked as the best Indian team at the event. The team is also ranked among the best Asian Teams.

This extremely competitive event includes over 140 colleges and universities from around the world, exchanging ideas, creations and concepts.

Team Fateh was founded in 2008, and also created their first car in the same year.

Thapar Nautanki Team (TNT)

Thapar Nautanki Team (TNT) is a society that specialises in street plays. They perform on various topics plaguing the society to create awareness and share their vision in a theatrical manner. They are appreciated by one and all for their vigorous and vivacious performances. They performed TNT 6 on 13th February 2013 in the campus followed by a performance of the same in Chandigarh on 14th February 2013, with 'women empowerment' as the overriding theme. TNT 7 was performed on 2nd May 2013.

TU 360

TU 360 (www.tu360.in) is a website, created by Hemank Sabharwal and electronics and communication engineering students of the university, that provides a virtual tour of the sprawling university campus. The whole campus is depicted pictorially with a 360 degree view of each and every spot. Various options and modes available for exploration make it very interesting.

Creative Computing Society (CCS)

Creative Computing Society organized Helix 2013 from February 4-7, 2013 in the University. A special event named "Battle of Researchers" was organized wherein students submitted their research findings in the form of research papers. Oral presentations were held for all the selected papers. This unique event was aimed at giving students an exposure to the world of research. The best papers were awarded, which were later showcased in an event attended by the faculty of the CSED.

Youth United Thapar Chapter

Youth United organised "Smiling Future" on February 12, 2013, an opportunity for under-privileged and special children to share the same stage as popular professional dance groups. A visit was organized by the Youth United team to Pingalwara (Apahaj Asharam), Patiala on January 26, 2013. Pingalwara is a home for the people whose families can't support them due to their ailments. The Asharam accepts them as one of their own and provides them with basic needs. The female members of the team, thereafter, went to the side of Pingalwara where women reside and spent time with them. Youth United organised a health camp for mess workers on April 12, 2013, at the University Health Centre.

Fine Arts and Photography SOCIETY (FAPS)

FAPS organized Kaleidoscope'13 on May 13, 2013.

Kaleidoscope is an exhibition that depicts the talent of artists in the Thapar University in the form of sketching, painting, T-shirt designing and calligraphy. More than 300 students and faculty members visited the art exhibition and the art work depicted was very well appreciated. The FAPS magazine was released for Academic Year 2013-14 depicting some exquisite works of art.



Interpretation is the revenge of the intellectual upon art.

– Susan Sontag

RESEARCH AT A GLANCE

The Thapar University faculty has been actively involved in attracting lot of research funding, publishing research papers in reputed journals and presenting them at conferences too. As the academic year 2012-13 closed in June, we thought about projecting some of the research highlights of the year gone by.

Total publications in Journal during the year	590
Papers published in conferences of repute	International: 110 National: 135
Ph. D's awarded during the year	50
Books published by the faculty of the university	08
Research funding sanctioned during the year 2012-13	Rs. 871.77 lakhs
Number of new research projects sanctioned during the year	52
Number of faculty members who acted as resource persons at various conferences, workshops, short-courses etc.	National Level 112 International Level: 11
Number of conferences attended by the faculty members of the University	International: 21 National: 72

OUR HERITAGE

Nikola Tesla

Nikola Tesla was born on 10 July (O.S. 28 June) 1856 to Serbian parents in the village of Smiljan, Austrian Empire (modern-day Croatia). His father, Milutin Tesla, was a Serbian Orthodox priest. Tesla's mother, uka Tesla (née Mandi), whose father was also a Serbian Orthodox priest, had a talent for making home craft tools, mechanical appliances, and the ability to memorize Serbian epic poems.

Tesla discovered the rotating magnetic field, the basis of most alternating-current machinery. He emigrated to the United States in 1884 and sold the patent rights to his system of

alternating-current dynamos, transformers, and motors to George Westinghouse the following year. In 1891 he invented the Tesla coil, an induction coil widely used in radio technology.

Training for an engineering career, he attended the Technical University at Graz, Austria, and the University of Prague. At Graz he first saw the Gramme dynamo, which operated as a generator and, when reversed, became an electric motor, and he conceived a way to use alternating current to advantage. Later, at Budapest, he visualized the principle of the rotating magnetic field and developed plans for an induction motor that would become his first step toward the successful utilization of

alternating current. In 1882 Tesla went to work in Paris for the Continental Edison Company, and, while on assignment to Strassburg in 1883, he constructed, in after-work hours, his first induction motor. Tesla sailed for America in 1884, arriving in New York, with four cents in his pocket, a few of his own poems, and calculations for a flying machine. He first found employment with Thomas Edison, but the two inventors were far apart in background and methods, and their separation was inevitable.

Hero of Alexandria

Hero (or Heron) of Alexandria (c. AD 10–70) was an ancient Greek mathematician and engineer who was active in his native city of Alexandria, Roman Egypt. He is considered the greatest experimenter of antiquity and his work is representative of the Hellenistic scientific tradition.

Hero published a well recognized description of a steam-powered device called an aeolipile (hence sometimes called a "Hero engine"). Among his most famous inventions was a windwheel, constituting the earliest instance of wind harnessing on land. He is said to have been a follower of the Atomists. Some of his ideas were derived from the works of Ctesibius.

Much of Hero's original writings and designs have been lost, but some of his works were preserved in Arab manuscripts.

The first vending machine was also one of his constructions, when a coin was introduced via a slot on the top of the machine, a set amount of holy water was dispensed. This was included in his list of inventions in his book, "Mechanics and Optics". When the coin was deposited, it fell upon a pan attached to a lever. The lever opened up a valve which let some water flow out. The pan continued to tilt with the weight of the coin until it fell off, at which point a counter-weight would snap the lever back up and turn off the valve.

Hero also invented many mechanisms for the Greek theater, including an entirely mechanical play almost ten minutes in length, powered by a binary-like system of ropes, knots, and simple machines operated by a rotating cylindrical cogwheel. The sound of thunder was produced by the mechanically-timed dropping of metal balls onto a hidden drum.

The human foot is a masterpiece of engineering and a work of art

– Leonardo da Vinci

ALUMNI ALMANAC

The Alumni Relations/Association office came into being in 1996 and since then has been actively involved in various activities related to the Alumni of the University. The general activities of the TU Alumni Association include organizing alumni meets, talks and providing scholarships for students of the university. They assist the institute for realizing various projects and are involved with maintaining and updating TU Alumni Databases. A quarterly newsletter is published by them, which deals with associating events of various Alumni to their Alma Mater. A society centered on spreading good relations, they send birthday wishes to alumni and also assist them in the formation of local chapters. The Alumni Relations/Association has a dedicated website (www.thaparians.org) which offers links to alumni across the globe and also connects them to their place of learning. The Association is currently headed by Mr. Rajeev Sharda. Along the years many alumni have shown their mark in their respective fields and have brought laurels to their alma mater.

Activities organized

An event to mark the passing out of students, titled 'Alumni in the Making' was held on 8th of May, 2013, wherein the graduates of 2013 were welcomed among alumni fold. The Association generously provided washing machines to girls hostels. They also published and provided Fresher's Guide to first year entrants of 2013. Scholarships were provided to 8 students amounting to Rs.48,000/-.

Proposed activities over the next six months

The Alumni Relations Office and TU Alumni Association has been honoring distinguished alumni every year. A special award shall be conferred during the Annual Convocation in the month of November 2013. A special prize of Rs. 20,000/- will also be given to 'the best all-rounder' of the institute for the year 2013 at the convocation. Alumni/Founders Day celebrations are planned on 19th October 2013, wherein TU shall welcome alumni from all batches from the batch of 1956 to that of 2013. The reunion of the Silver Jubilee batch "1984-88" shall be organized on 21st December 2013. The reunion of the 30 year old graduates "1979-83" shall be organized on 28th December 2013.

PROUD TO BE A THAPARIAN

Robin Raina

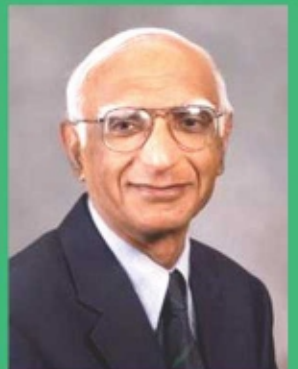
Robin Raina, a 1990 Industrial Engineering graduate, is the chairman and CEO of Ebix Inc. which is an insurance software development firm that trades on the NASDAQ Global Select Market under the ticker symbol EBIX. He is also the founder of the Robin Raina Foundation. After completing his degree from then Thapar Institute of Engineering and Technology (now Thapar University), Raina went onto join Delphi Information Systems, Inc. In 1997 he became the Vice President of Professional Services, and in August 1999 was promoted to the added title of President, having previously been named COO. In 1999 Delphi changed its name to Ebix.com and then in 2003 changed its name to Ebix Inc. Raina's charity, the self-named 'Robin Raina Foundation', supports children in education, food, shelter and medical needs. The foundation is presently carrying out the largest private charity home building initiative in the Indian sub-continent, in terms of building 6000 homes, free of cost, for the slum dwellers of Delhi.



Romesh C Batra

Romesh C Batra is a Clifton C. Garvin Professor in the Department of Engineering Science and Mechanics at the Virginia Polytechnic Institute and State University in USA. His areas of interest include Multiscale Analysis of Multiphysics Problems involving Material and Geometric Nonlinearities, Nanomechanics, Dynamic Failure under Shock Loads, Smart Structures, Functionally Graded Materials. Mr. Batra did his B.S.(Mechanical Engineering) from Thapar Institute of Engineering Technology (now Thapar University) in 1968. He then went on to pursue M.A.Sc(Mechanical Engineering) and Ph.D.(Mechanics and Materials) from University of Waterloo in 1969 and The Johns Hopkins University in 1972, respectively.

He has been honored with various accolades including numerous awards for excellence in teaching.



Never regret. If it's good, it's wonderful. If it's bad, it's experience.

- Victoria Holt

SPOTLIGHT

Arjuna Awardee Deepa Malik delivers motivational lecture

Thapar University has always promised to provide quality education to students and add value to their personalities. Deepa Malik, 43 years old sportswoman, Arjuna awardee, who brought laurels to the nation in parasports, visited Thapar University for that very cause. A motivational lecture by Mrs. Deepa Malik was organized in the auditorium on May 10th, 2013.

Her life is an inspiration. Total paralysis below the chest and three spinal tumour surgeries (183 stitches between shoulder blades) didn't stop her from achieving what many able bodied men cannot. The wife of a retired Cavalier Colonel, mother of two adult daughters, an international sportsperson and medalist, first paraplegic Indian woman biker, swimmer, a car rallyist and the first sportswoman to represent the country at international level in her category of disability {F-53}, Deepa Malik's credibility is beyond belief.

Deepa started her sports career at the age of 36 and went on to become the oldest and most severely disabled athlete ever to receive the Arjuna Award on 29th August 2012 from the President of India, at the age of 42. She still continues to train for upcoming World Championship and currently holds the Asian Records in Javelin and Shotput in F-53 category.



INSPIRE Science Innovation Camp

A five day Science Innovation Camp (29th March to 2nd April, 2013) was organized by the School of Physics & Materials Science and the School of Mathematics and Computer Applications, Thapar University, Patiala. On the inaugural day it witnessed huge enthusiasm among science students from Patiala and neighbouring towns, with over 200 in attendance. This camp, organized under INSPIRE (INNOVATION IN SCIENCE PURSUIT FOR INSPIRED RESEARCH) INTERNSHIP PROGRAMME is sponsored and managed by Department of Science and Technology (DST), Govt. of India. INSPIRE is an innovative programme to attract young talent to science, to communicate the

excitements of creative pursuit of science to the youth of the country, and thus to build the required critical human resource pool for strengthening and expanding the science and technology system and R&D base of the country.

Speakers of national and international repute were invited to address budding future scientists across the five day duration. In the inaugural lecture, Dr. J.V. Yakhmi, Fellow of National Academy of Science and Chairman, Atomic Energy Education Society delivered a motivational lecture on, "Why to choose science as a carrier" which was well appreciated. Dr. S.S. Bhatia, convener of the science camp, welcomed and thanked the august gathering for making the event a success. The co-convener, Dr. Kulvir Singh, highlighted the importance of the event and motivation behind the internship programme. As a part of the programme, students were given demonstrations of state-of-the-art research facilities and sophisticated instruments. A science quiz was also organized. Dr. K.K. Raina, Director, TU, presided over the proceedings.

Mega Blood Donation Camp

A blood donation camp was organized by NSS in collaboration with Amarnath Bhagwanti Charitable Trust on Feb 13, 2013 in the auditorium. The camp was inaugurated by Dr. K. K. Raina, Director, Thapar University and Dr. Seema Bawa, Dean of Students Affairs. During this one day event a team of doctors and assistants from Rajindra Hospital Blood Bank, guided the volunteers and donors through the prerequisites and procedures. The students, staff and faculty members were there among the donors. A total of 324 units of blood was collected. Refreshments were distributed to the donors both before and after the blood donation. Certificates of appreciation were also given to the donors. The camp was a success.



What should be standing in the shoes of passion, and be walking on the plans of action is sitting in the ink on the paper. Why? Because of the fear to start. – Israelmore Ayivor

SNIPPETS

Music Recommendations

1. Nusrat Fateh Ali Khan
2. Luciano Pavarotti
3. Amit Trivedi
4. Bob Dylan
5. Aretha Franklin

Movie Recommendations

1. Shawshank Redemption
2. Chupke Chupke
3. A Beautiful Mind
4. Jaane Bhi Do Yaaro
5. Amour

The Perks of Being a Wallflower

The Perks of Being a Wallflower, adapted by the epistolary novel of the same name by novelist Stephen Chobsky, reflects upon the coming age story of a teenager. Having been abused at a very young age by his aunt, he goes into a deep sense of repression which makes him an outcast. His repressed memories make him mentally unstable and susceptible to possible self-harm till he meets a group of fellow misfits, the Wallflowers. A beautifully crafted work of art, The Perks of Being a Wallflower touches you and makes you think. At the end of its run-time you are left with some of the strangest melodies ever heard, a very vivid scene of rocky horror and a beautiful thought "Right now we are alive and in this moment I swear we are infinite."

JOKES

Politician : Honey! I won the elections this time
 Wife : Honestly ?
 Politician : Let's not bring that up .

"Economy is falling so fast, soon girls will start marrying for love"
 - Wall street journal

An editor once wrote: 'Don't be surprised if you find mistakes in this editorial newsletter. We print something for everyone. And some people are always looking for mistakes.'

Book Recommendations

1. THE DEVIL'S ALTERNATIVE - FREDERICK FORSYTH
2. KANE AND ABEL - JEFFREY ARCHER
3. THE UNBEARABLE LIGHTNESS OF BEING - MILAN KUNDERA
4. AND THE MOUNTAINS ECHOED - KHALED HOSSEINI
5. ANIMAL FARM - GEORGE ORWELL

Know your Words

Mamihlapinatapai - a look shared by two people, each wishing that the other will offer something that they both desire but are unwilling to suggest or offer themselves.

A slightly different interpretation of the meaning also exists -

It is that look across the table when two people are sharing an unspoken but private moment. When each knows the other understands and is in agreement with what is being expressed. An expressive and meaningful silence.

Interesting Fact - It is derived from the Yaghan language of Tierra del Fuego, listed in The Guinness Book of World Records as the "most succinct word", and is considered one of the hardest words to translate.

A man who can laugh at himself is truly blessed, for he will never lack for amusement.

- James Carlos Blake

57th Annual Athletic Meet

Thapar University, Patiala organized its 57th annual athletic meet on 3rd April 2013. This one day event also marked the culmination of "THAPARLYMPICS", a unique event organised at the University wherein the students and the faculty members combine as a team and participate in various sporting events.

The Annual Meet was inaugurated by hoisting the University flag by Dr. K. K. Raina, Director, Thapar University, Patiala where he said, "Such events help in building sportsmanship and team building among the students which will help them not only now but in the years to come. I would request them to be a part of this event wholeheartedly. Thapar students have already been doing very well and I'm sure they will continue to do it." The meet ended with the prize distribution ceremony, wherein the winners of various sporting events were honoured with medals and mementos by Sh. J. S. Neerav, Vice-Chairman, Board of Governors, Thapar University.



Mr. Parambir Singh Cheema, a third year student of Civil Engineering, was adjudged the best athlete among men and Ms. Bhavnnet Kaur, a first year student of Mechatronics, was declared the best athlete among women. Mr. Akshay Kaura, a first year Mechanical student was declared the fastest man in Thapar. The overall trophy for "THAPARLYMPICS" was won by team Invincibles comprising of the faculty, staff and students of Electronics Engineering Department.

In other main achievements during the period, Thapar University's team stood first in the Inter College tournaments in Tennis for both Men and Women, Badminton Men's tournaments and Table Tennis for both Men and Women organized during the year, whereas, University's Chess and Football teams also emerged as runners up in these tournaments. Thapar University teams have also been participating in Inter-University tournaments and performing incredibly well. (for details see box below)

Achievements

- Table Tennis (Men) team of Thapar University participated in North Zone Inter University Tennis Tournament held at New Delhi from January 3-6, 2013.
- Our Tennis (Men) team participated in the North Zone Inter University Tennis Tournament held at NIT Jalandhar from January 22-29, 2013.
- Thapar University's Cricket team won the Inter Engineering tournament held at PEC, Chandigarh from April 18-20, 2013.
- Thapar University's Table-Tennis (Men/Women) team won the Inter Engineering tournament held at NIT, Jalandhar on February 12-13, 2013.
- Thapar University's Lawn Tennis (Men/Women) team won the Inter Engineering Lawn Tennis tournament held at Thapar University, Patiala on March 1-2, 2013.



Adversity causes some men to break; others to break records.

- William Arthur Ward

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