



### Our Vision

To build a vibrant multicultural learning environment founded on value based academic principles, wherein all involved shall contribute effectively, efficiently and responsibly to the nation and global community.

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### Message From The Director



Prof. I. K. Bhat, Director

Since the publication of the last issue of Newsletter in January 2007, many major events of academic importance have taken place in National Institute of Technology Hamirpur. The new issue of Institute Newsletter to be released in May 2007 will carry a brief pictorial summary of these memorable events.

In the just ended year we have seen lot of developments in all spheres. Be it academic or infrastructure or Staff and Faculty Development, everywhere efforts put in by the faculty, staff and especially Coordinators of different activities are visible. The empowerment of Coordinators has definitely helped in improving the brand image of our Institution. Its impact is visible not only to us at NIT, Hamirpur (HP) but every stakeholder has started appreciating the new initiatives taken by us. During this period, I feel that the role played by all has led to an important achievement of helping people to become organization's people which is going to be the key strength of this Institution. My endeavor will definitely be to further promote and support the good work and help everyone to achieve the goals and be better competitive.

In this period, we have been able to automate many of the procedures and have establishment the new office in the Administrative Building which houses all sections viz; administrative, financial, stores, etc. It has helped us in training people to work in an intelligent & wireless networked digital environment and get the optimal output. This workplace has been equipped with proper IP based Communication System, Wireless networks, powerful and versatile software to handle voluminous data and content in an efficient manner and arrive at meaningful action creating such a work environment has helped in (i) Improving personal productivity (ii) Quicker disposal of files (iii) Unified communication (iv) Presence in academic community (v) Optimal use of resources (vi) finding right information, (vii) Creating friendly environment (viii) improved morale, etc. During this period we have seen NIT, Hamirpur (HP) getting out of its old shell and shaking hands with other reputed Universities of the globe. The MoU signed between the Institute and UTS Australia has culminated in a dialogue for collaboration in (i) Faculty & student exchange Programme and (ii) Research and Development.

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## Short Term Courses/Training Programmes Conducted

- TIFAC-CORE (Power Transformer Diagnostics) organized a three day refresher course on ‘Transformer Engineering and Practices’ during 26<sup>th</sup> – 28<sup>th</sup> February 2007. The course was attended by 43 participants, which included 25 participants from Himachal Pradesh State Electricity Board (HPSEB), mostly of the rank of Assistant Executive Engineer & Executive Engineer. The remaining were Ph D (02 Nos), M Tech(14 Nos) and B Tech (02 Nos) students of our institute. The course was inaugurated by Er S K Choudhary, Chief Engineer (Transmission) HPSEB Hamirpur and Er R B Sharma, Director (Substation Design), Er M M Malik, Superintending Engineer (Operation) and Er V K Sharma Superintending Engineer (Transmission) were the Guests of Honour.



Inauguration Ceremony of the Course



Participants attending the session

The faculty of Electrical Engg. & Applied Sciences departments delivered lectures on theoretical and practical aspects of transformer engineering followed by lab demonstration of equipments (DGA, C & Tan delta, SFRA and BDV test set) procured under TIFAC-CORE. Dr RN Sharma, Sh OP Rahi, Dr Mukesh Kumar, Dr (Mrs) V. Sharma Dr BS Kaith, Sh RK Jarial, Dr A Chandel, Dr Ravinder Nath, Dr Sushil Chauhan and Dr RN Sharma delivered lectures during the course. Prof. I K Bhat, Director NIT Hamirpur, was the Chief Guest during valedictory function. The course was coordinated by Dr Sushil Chauhan, Dr R. N. Sharma and Dr Mukesh Kumar.

- Two days training programme on “Culture Building through Team Work” was organized by the Department of Applied Science and Humanities during 21-22 April 2007. It was attended by various faculty members of the Institute. The programme was well received and appreciated by the participants. Sh. Dalip K. Parimoo, Sr. Consultant WIMCO was the resource person. The participants included Dr. A.S. Singha, Dr. B.S. Kaith, Dr. Saroj Thakur, Dr. R. L. Sharma, Dr. R.K. Sharma, Dr. Raman Parti, Dr. Y. R. Sood, Dr. R. N. Sharma, Dr. Mukesh Pathak, Dr. Ravindra Nath Sharma, Sh. R. K. Jarial, Dr. R. K. Sehgal, Dr. P.K.Sood, Sh. Rajesh Sharma, Sh. Rajiv Kumar Sharma, Sh. S. R. Chauhan, Sh I.P.Singh, Mrs. Meenakhi Jain, Ms. Amanjeet Kaur, Dr. Lalit Kumar, Mrs. Kamlesh Dutta, Dr. S. K. Jain, Sh. Siddharatha Chauhan, Dr. (Mrs.) Rajeevan Chandel, Sh. B.J. Rao, Sh. Ashok Kumar, Smt Gargi Khanna, Sh. Ashwani Kumar, and Mrs Pamita Awasthi.

## Expert Lectures

- Prof. Anurag Roy**, Dean, Vastu Kala Academy, New Delhi delivered a series of expert lectures on 1st & 2nd February, 2007 on the varied topics such as Climate and Energy, Building Construction and Rhythms of Architecture”.
- Er. Deepak Vatsayan**, IT Bangalore delivered an expert talk to faculty & B.Tech. & M.Tech. students of E&CED on “End of Moore’s Law-VLSI Technologies and its Business” on 3rd Feb., 2007.
- An expert lecture on “Wear of Metallic Materials” by **Dr. D. K. Dwivedi**, Assistant Professor, Mechanical and Industrial Engineering Department of IIT Roorkee was organized by the department of Mechanical Engineering on March 30, 2007.
- Sh. Sanjay Kumar Singh Prashar** from IIT Kharagpur delivered an expert talk on “nanotechnology” on 2nd April 2007, which was organized by the department of Applied Sciences and Humanities.

## Workshops Conducted

- The academic departments of our institute organized curriculum development workshop for the revision of their respective curricula for the various B.Tech level courses during the last couple of months. Some of the eminent experts included Prof. S. K Kaushik (IIT Roorkee), Prof. M.S. Ghuman (PEC Chandigarh), Prof. D. K. Sehgal (IIT Delhi), Prof. K. S. Kasana (NIT Kurukshetra), Dr. D. K. Dwivedi and Dr. Inderdeep Singh (both IIT Roorkee), Prof. R. Jha (NIT Jalandhar), Prof. V.K. Jain (SLIET Longowal), Prof. D.K. Jain (C.R.S.E.C Murthal), Prof. R. Aggarwal (TIET Patiala), Prof. Ajay Sharma (NIT Jalandhar), Mrs. Alpana Aggarwal (TIET Patiala), Mrs. Manju Sharma (DAV EC Jalandhar) and Prof. Harsh Verma (NIT Jalandhar).
- BEAM Robotics workshop was conducted for 78 students participants on 24th and 25th March, 2007 under SPEC E&CED NIT, Hamirpur (HP). Dr. G. Venkatesh from DoCel Bangalore was the expert. Participants worked enthusiastically for many hours and finally made two robots. The workshop gave birth to the robotics culture in NIT, Hamirpur.
- The Society of Mechanical Engineers (SOME) organized a workshop “ROB’O’SHOP” on Robotics during 17th and 18th February 2007. Forty Six students of various technical institutes participated in the workshop. Mr. Madan Kumar of INVOBOT systems, Chennai was the instructor for the workshop. Prof. I.K. Bhat Director of NIT Hamirpur, Inaugurated the workshop and delivered an expert lecture on Autonomous Robot



A view of Curriculum Workshop in Progress in the Department of Civil Engineering



Prof. I.K. Bhat welcoming Mr. Madan Kumar during ROB’O’SHOP

## Sponsored Research and Consultancy Projects

- Dr. B.S. Kaith received UGC research project on “Functionalization of Psyllium Through Graft Co-polymerization and Interpenetrating Net-work Formation to develop Novel Materials and Their Applications as Drug-delivery Devices” of worth Rs. 04,19,600/-. Sanctioned vide letter No. F. No. 32-225/2006(SR) dated February 23, 2007.
- Department of Civil Engineering recently completed a consultancy project, which was awarded by ACC Ltd. Barmana. Dr. Pardeep Kumar and Dr. Umesh Sharma were the investigators.
- The department of Architecture successfully completed the consultancy project on “Landscape Development of Residential Township” at Jamtal Barwana for NTPC.
- NTPC, Bilaspur has awarded another consultancy project to the Deptt. of Architecture “Landscape Development and Beautification of Dam Site” at Jamtal Barwana.
- A consultancy project for the “Landscape Development of Township” at Rampur near Nathapa Jhakri Hydrel project has been awarded to the Deptt. of Architecture by Satluj Jal Viduyt Nigam Ltd., Rampur.

## Lectures Delivered

- **Dr. R.L. Sharma**, Professor CED, **Dr. Pardeep Kumar**, **Dr. R.K. Dutta** and **Dr. Umesh Sharma**, Assistant Professors CED, delivered lectures during a training programme on “STAAD PRO” organized by Himachal Institute of Public Administration (HIPA) at Shimla from 1<sup>st</sup> to 12<sup>th</sup> January 2007.
- **Dr. Pardeep Kumar** and **Dr. Umesh Sharma**, Assistant Professors CED, delivered expert lectures during a Workshop on “Earthquake Resistant Construction” organized by an NGO (Himalyan Forum) at Naddi, Dharamsala on 25<sup>th</sup> April 2007.
- **Dr. Rajeevan Chandel** delivered an expert lecturer on “VLSI Design Techniques and EDA Tools” on 31/03/2007 in NIMBUS-2007.
- **Dr. Narottam Chand**, CSED, gave an expert talk on “Cache Management in Mobile Ad-Hoc Networks” on March 17, 2007 at AMU Aligarh.
- **Dr. L K Awasthi**, CSED, gave an expert talk on “Fault Tolerance in Mobile Distributed System” on March 17, 2007 at AMU Aligarh.
- **Dr. L K Awasthi**, CSED, delivered lecture on “Mobile Computing” on March 8, 2007 at TEQIP sponsored short term course on “Recent advances in Instrumentation & Control Engineering” at NIT Jalandhar.
- **Dr. R.L. Sharma** and **Dr. Pardeep Kumar** delivered expert lectures on “Earthquake Resistant Design and Construction Practices” at Govt. Polytechnic Hamirpur on 23<sup>rd</sup> and 24<sup>th</sup> March 2007.

## Student Activity

- The students of the 3rd Year bid farewell to their seniors, the batch of 2007 on the night of the 23<sup>rd</sup> of April, 2007. The Institute Auditorium witnessed one of its largest audiences at the inaugural function, where, members of the faculty, as well as the two batches spoke out in all sorts of emotions, ranging from the happy, to the sad, to the nostalgic about the past four years spent here. The inaugural function ended with a video titled 'The Reflections of Passion', a compilation of pictures very dear to the Final Year students, done by Vivek Bhatia, and some excellent performances by students of both batches. The function was immediately followed by a buffet. A dance floor had been prepared for the students to let their hair down after dinner, and they did exactly that! The teachers decided to let the students have some fun, some of whom found themselves dancing for the very first time in their lives. While the Third years decided to call it a day at about 11, Final year students could be found dancing right until midnight. In all, nostalgia was in the air, and the farewell gave the students and teachers time to bond, share, and enjoy.
- The first Hostel Night of Vindhyachal Hostel was celebrated on the 21<sup>st</sup> April 2007. The chief guest of the night was our worthy Director Prof. (Dr) I. K. Bhat. Other faculty members who had enlightened the function with their auspicious presence were Dr. Anoop Kumar (Dean, SWAA), Dr. Y. D. Sharma (Chief Warden), Sh. Prashant Dhiman (Warden- Shivalik hostel) and Dr. Kuldeep Sharma (Warden- Shivalik hostel). The function was made memorable with the heart throbbing performances of students and also of the dignitaries, especially the most appreciable performances of solo songs by Prof. I. K. Bhat and Dr. Anoop Kumar.
- Parvati Girls Hostel and Kailash Boys Hostel celebrated their hostel nights on 22<sup>nd</sup> April, 2007. The dignitaries present on the night were Prof. (Dr) I. K. Bhat Director, Dr. Anoop Kumar Dean (SWAA), Dr. Y. D. Sharma Chief Warden, Dr. (Smt.) Saroj Thakur, Warden of PGH, Dr. (Smt.) Veena Sharma Warden of PGH, Dr. Subhash Chand Warden of KBH and Dr. R. K. Dutta Warden of KBH.
- Mr. Kumar Ashutosh, B.Tech. Final Year ECE students of this Institute was awarded "Best Students Award" for the year 2006-2007.



Glimpses of Students Farewell 2007

- Two of our students, **Rakesh Pandit** (03527) and **Mr. Debarshi Ray** (03515) of CSE have been selected for the **Google Summer Code of 2007**. The selection was based on their project proposal and interaction with the various participating organizations. Mr. Rakesh Pandit has been selected to work on a project of GNU. Dr. Nagarjuna, President Free Software Foundation, shall act as his mentor. Mr. Debarshi Ray shall work on a project of Fedora. Dr. Shankarshan M. shall act as his mentor. In all 45 students from India and about 800 students from the entire world have been selected for Google Summer Code of 2007. They shall be awarded a prize money of \$ 4500 for two months project.
- The major design project of the students of IX<sup>th</sup> Semester B.Arch. Mr. Sachin Patil and Rashmi Kutlehria was awarded as best Sustainable Thesis for the year 2006-07 by A-3 Foundation, Chandigarh on 11<sup>th</sup> Feb.,2007. The students and their Thesis Guides were honoured by A-3 Foundation on the occasion.
- The paper entitled "**Culture in the City**" by Mr. Riyan Habeeb and Mittali Katoch of 4<sup>th</sup> year B.Architecture stood first in the "**COGNIZANCE**" a technical paper presentation contest organized by Deptt of Architecture & Planning, IIT Roorkee.
- Anoop Kumar and Tushar Srivastava, of 4<sup>th</sup> year B. Architecture bagged first prize for their paper entitled "**Managing Design**" in the "**COGNIZANCE**" a technical paper presentation contest organized by Deptt of Architecture & Planning, IIT Roorkee.

- Mr. Manish Singh and Mr. Padeep subudhi, B.Tech. Students of E&CED attended Tech.kirti-07 held w.e.f. 22-25<sup>th</sup> Feb., 2007 at IIT, Kanpur:
- A counseling session “Placement Chakra” was conducted by the final year TPR's, on 3<sup>rd</sup> September, 2006 in auditorium in which nearly 75 students from 3rd year and some others from 1st and 2nd year participated. The session was meant for the guidance of students, so as to provide them a clear vision of their choices and interests according to whom they can frame their preference order for the recruiters.
- About 65 students from all the branches visited Hamirpur radio station in Anu. Students came to know about various equipments and techniques used for radio transmission.
- A soldering workshop was held on 22<sup>nd</sup> February, 2007 in which students were taught soldering skills. Nearly 40 students participated in the workshop.
- Eight students of NIT Jalandhar were trained by Sh. Anil Kumar and Sh. Ashwani Sharma in configuring Sun Solaris Systems under Institute Networking.
- About 10 students from E&CED participated in IIT Delhi Tech. Fest-Tryst-07, from 23rd-25th Feb., 2007.

## Sports News

One more season came to an end, one more Sports Calendar is over but this one is one of the finest, the most happening and the busiest of all with a lot variety of events. The sports committee this time really proved that sports are an integral part of any institute and very important for an all round development of every individual. Many new events were organized for the first time this year to increase the interest of the students in sports and to develop a Sports Culture in the institute and the committee succeeded in this. For the first time the sports activities were held in the odd semester also. The sports calendar kicked off with the Inter Branch Tournaments, which were held for the first time. All the Inter Branch Tournaments were held including Cricket, Football, Basketball, Volleyball, Badminton, Table Tennis, Carrom, Chess etc. The CIVIL ENGINEERING DEPARTMENT emerged as Overall Champions in the Inter Branch Tournaments and they deserved it too. With this the Sports Calendar of the odd semester came to an end.



Prof. I.K. Bhat inaugurating the cricket match



Chief guest, Sh. Jagir Singh Ji being welcomed during annual Athletic meet Lalkar 2007

The even semester started off with the Inter Year Tournaments with all same games held in odd semester with Hockey also. The third year students came as overall champions in this class of tournaments. For girls the indoor games were held as usual including Badminton, Table Tennis, Carrom and Chess. The Cricket tournament was also held which the Final Year girls won. Apart from these for the first time Basketball Tournament was held with such huge participation of girls and it was again won by the final year girls. The Overall Champions were Final year girls. Having organized all these events successfully the sports department didn't sit back and went on organizing the Athletic Meet at a huge level like never before. This time it was held as LALKAAR-07 the Annual Athletic Meet with all the athletic events during daytime and lots of Informal and Computer games in the evening. A two-day cultural night was also organized in Lalkaar which was highly appreciated, enjoyed by all. And on the final day of the meet i.e. Prize Distribution Function, we had **Shri Jagir Singh Ji**, International Volleyball player and coach as our Chief Guest for the function. Besides this our students, our teams have also participated in the tournaments held in other institutes as well. The football team led by Mr. Vipin Randhawa came 2<sup>nd</sup> in the football tournament held at MNIT Jaipur in Feb 2007 and brought laurels to the institute.. The basketball team also reached the semifinals among 12 teams participated from all over India. And this is not yet over. The Sports Department also organized the Inter Engineering Deemed University Cricket Tournament in the NIT Hamirpur stadium from 25<sup>th</sup> to 27<sup>th</sup> march. The NIT Hamirpur Cricket team led by Mr. Siddharth Jain(Final Year) performed quite well and came runners up after losing to PEC Chandigarh in a tough and close final. Proff. I. K. Bhat ,Director NIT Hamirpur, was the Chief Guest of the Prize Distribution function. A friendly cricket match was also organized between Director Eleven of NIT Hamirpur and Hamir Press Club in NIT stadium.The Director Eleven team led by Dr. Y.D. Sharma won the match. Sh. Surender Soni was the top scorer of the match with unbeaten 52.

## Nimbus 2007

Annual technical festival “NIMBUS” was organized from 29<sup>th</sup> March to 01<sup>st</sup> April, 2007. The Chief Guest for the ceremony was Sh. H.K. Sharma, Chairman & Managing Director of Satluj Jal Vidyut Nigam Ltd. Nimbus aims to be a benchmark technical festival in north India. This year’s edition, Nimbus 2007 aimed to provide a platform for youngsters to participate and acted as an outlet for their creativity and technical innovation. In Nimbus 2007, knowledge and fun go hand in hand. The theme being ‘engineering simplified’, Nimbus 2007 would try to simplify engineering and help students understand basic essential concepts in various streams of engineering. For this purpose, numerous workshops, competitions and events were organized over a span of three days. These events encouraged the participants to prove themselves and sharpen their skills in order to quench their thirst for knowledge.

The prominent events included: Archigram, Move fore to d’zyne and Modello organized by the department of Architecture; Conception redefined, Engeniusness, and Concretum conducted by Civil Engineering Department; Crack da code, Bug hunter, Virtual Showdown and Break through organized by Computer Science & Engineering Department; e-drift, Black Box, Cache memory design, Distortion dignified, and Faraday’s Laboratory hosted by Electrical Engineering and Electronics and Communications Engineering Departments; and Mindz & Machines, Machuiz, Mr.O.Bot and Aero Modeling organized by Mechanical Engineering Department. Experts from different fields delivered lectures on variety of topics.

## Services to Community



Prof. I.K. Bhat addressing the participants of the Workshop on “Hands on Training on Domestic Electrical Appliances”



Dr. Piar Chand apprising the participants about the workshop on “Getting Motivated Some Practical Techniques”

- Electrical Engineering Department organized two days Workshop on “Hands on Training on Domestic Electrical Appliances”, during 10/03/07 to 11/03/07 under TEQIP, services to community for the educated unemployed youth. In this workshop about 40 participants participated and were given theoretical background as well as practical training regarding various domestic electrical appliances. The faculty members (Dr. Y.R. Sood, Dr. Veena Sharma and Sh. O. P. Rahi) of the Department delivered the lectures and practical training was imparted by the technical staff of the department. The workshop was co-ordinated by Dr. Veena Sharma, Sh. O.P.Rahi and Dr. Y.R. Sood of Electrical Engineering Department.
- Department of Mechanical Engineering organized a one-week training programme on Motor Vehicle Repair and Maintenance (Feb 26- Mar 02, 2007) under Community Services. About thirty participants attended the course. The programme provided an exposure on maintenance and repair aspects of motor vehicles to the unemployed youth from the community. Er. Parvesh Dangi, Er.K.Viswantha Raju, Er. Avinash, experts from Bosch Power tools, Chandigarh and Shri K.C Rai from Govt Polytechnic Hamirpur, delivered the lectures. Course Coordinators: Dr Sunand Kumar (Head, Mech.Engg Deptt.) and Shri Rajiv Kumar Sharma (Faculty, Mech. Engg Deptt.).
- Two days workshop on “Getting Motivated Some Practical Techniques” was organized by Applied Science and Humanities department during 3-4 February 2007. It was coordinated by Dr. Piar Chand and Sh. Yogesh Gupta. Sixty two participants from various government departments located in Hamirpur district and the faculty and administrative staff from NIT Hamirpur attended the Workshop.
- A workshop on Entrepreneurship for Self Employment in Technical Field was conducted by the Central Workshop on 24th February 2007. Sixty five students from various Industrial Training Institutes of Hamirpur district participated.

## Courses, Seminars and Training Programmes Attended

- **Sh. R. K. Sharma** attended “National Seminar on Soft Computing Methodology, held at Ujjain Engineering College, Ujjain from 19th Mar. 2007 to 20th Mar. 2007.
- **Dr. Raman Parti**, Prof & Head, CED attended a short term course on “Planning, Design, construction & Maintenance of Rural Roads for PMGSY” from 10-02-07 to 13-01-07 at IIT Roorkee.
- **Ar. I. P. Singh & Ar. Minakshi Jain** attended a Short Term Course on “Building in the Public Realm II: Green Buildings” w.e.f. Jan 8<sup>th</sup> to 12<sup>th</sup>, 2007 at School of Planning and Architecture, New Delhi.
- **Dr. A. S. Singha** attended and presented Research paper at International Conference on oil and gas (PETROTECH-2007) held at New Delhi w.e.f January 15-19, 2007.
- **Dr. B.S. Kaith** attended 7<sup>th</sup> International Oil & Gas Conference and Exhibition [Petrotech – 2007], January 15-19, 2007, New Delhi.
- **Dr. Kuldeep Kumar Sharma** attended a TEQIP sponsored workshop on “Characterisation of Materials” organized by the Department of Matallurgical & Marerials Engineering, VNIT – Nagpur.
- **Dr. Kuldeep Kumar Sharma**, attended the Awareness Workshop on “The Facilities of UGC-DAE Consortium for Scientific Research” held at Department of Physics, Kurukshetra University Kurukshetra, Kurukshetra.
- **Dr. Rajeevan Chandel and Mrs K. Dutta have** attended ZOPP Workshop under SMDP-II on Feb., 6-7, 2007 at IISc, Bangalore.
- **Dr. Vinod Kapoor** attended a meet “SPARSH-2007” at Gurgaon on 13 - 14<sup>th</sup> Feb., 2007 organized by M/S Tata Consultancy Services. The theme for this year was “Empowering students to make more reasoned career choices”.
- **Mr. Pankaj Kamboj & Mr Gurvinder Singh** attended Xilinx FPGA, DSP Workshop at IIT Delhi from 19-22 Feb., 2007 under SMDP-II Project.
- **Mr. P. Daniel & Mr. Manmohan Singh** attended the Embedded/FPGA workshop at IIT Kharagpur from Feb. 26- 1 March, 2007 under SMDP-II Project.
- **Dr Sushil Chauhan, Dr Mukesh Kumar and Sh R K Jarial** attended India Doble Power Forum at Vadodra from 16-18 Dec 06 on ‘Optimising the Management of Assets within the Power Sector’ under TIFAC-CORE.
- **Dr. Vinod Kapoor** attended TPO’s meet at Delhi on 9<sup>th</sup> January 2007 conducted by M/S Wipro Technologies.
- **Prof I. K. Bhat, Prof Rakesh Sehgal, Prof Lalit Kumar and Dr. Vinod Kapoor** have attended National Workshop on Industry Institute Interaction (NWIII-2007) organized by NIT Kurukshetra at Chandigarh on 19<sup>th</sup>-20<sup>th</sup> February, 2007. During the conference, discussions were held with the representatives from M/S Sun Developers, Falcon, Powai Labs and few others to collaborate with NIT, Hamirpur (HP).
- **Dr. Vinod Kapoor** has attended Placement Officers meet on 10.03.2007 at Pune organized by M/S THERMAX LTD. PUNE. The meet was organized to have free interaction of views between the academia and the industry related to vocational training and placement of students.
- **Sh. B.S. Minhas**, Assistant Librarian, and **Sh. R.P. Patial**, Sr. Library Assistant, attended a Workshop on “Getting Motivated: Some Practical Techniques” organized by the department of Applied Science and Humanities, NIT Hamirpur from 3-4 April 2007.
- **Dr. R. K. Sharma**, Coordinator(Library) , **Sh. D.S. Jaswal**, Sr. Librarian and **Sh. Ashwani Kumar**, Technician, attended International Calibre-2007 organized by Punjab University, Chandigarh during 8-10.2.2007.
- **Sh. Deep Kanga**, Technician Gr-1, and **Sh. Sarvjeet Singh**, Reprographic Assistant, attended a short term course on “Camera Operation and Lighting” organized by NITTR, Chandigarh during 5-9. 2. 2007.
- **Sh. S.D. Sharma and Sh. B.S. Minhas**, Assistant Librarians, attended XXII National Seminar of IASALIC organized by IIT Roorkee from 13-16. 12. 2007.
- **Sh. Sarvjeet Singh**, Reprographic Assistant, attended a short term course on “Servicing & Maintenance of Audio & Video Equipment” organized by NITTR, Chandigarh during 26-30.3.07.
- **Mr. Manvesh & Mr. Pradeep** attended a STC on “VLSI Signal Processing” at IIT Kharagpur in Dec.23-29, 2006.
- **Sh. G.R. Bharti**, Registrar, attended a Workshop on “Reservation Directives for SC/ST/OBC in Services” during 19-23 February 2007, organized by Third World Development Centre at Goa.
- **Dr. R.K. Dutta**, Assistant professor CED, and **Sh. S.S. Katoch**, Lecturer (S.G.) CED, attended a Workshop on “Waste minimization and environmental geotechnology of disposal in landfills, slurry Ponds and old Dumps” at IIT Delhi during 12-14 February 2007.
- **Sh. Rajesh Sharma**, Lecturer MED, attended National Seminar on “Soft Computing Methodology” at Government Engineering College Ujjain during 19-21 March 2007.
- **Sh. R.K. Jarial**, Lecturer (SG) EED, attended a National Conference on “Power Electronics and Intelligent Control-2007” at MNIT Jaipur during 17-18 March 2007.
- **Dr. Veena Sharma**, Lecturer (SG) EED, attended a National Conference on “Innovations-2007” at BBS Engineering College Fatehgarh during 6-8 April 2007.

## Papers Published in Journals (International/National)

### International

- **Sharma Umesh**, Bhargava, P., Singh, S. P. and Kaushik, (2007) S.K, "Confinement Reinforcement Design for Plain and Fibre Reinforced High Strength Concrete Columns", *International Journal of Advanced Concrete Technology*, Vol. 5, No.1, pp. 113-127.
- Singh, S. P. and **Sharma Umesh**, (2007) "Flexural Fatigue Strength of Steel Fibrous Concrete Beams", *International Journal of Advances in Structural Engineering*, Vol. 10, No.2, pp.197-207.
- Harvey B., **Kumar Pardeep** and Bhandari N.M., (2007), "Mechanism Based Assessment of Masonry Arch Bridges" SEI Discussion, *Structural Engineering International, Journal of the International Association for bridge and Structural Engineering*, Vol. 17. Number 1, pp. 97-99.
- **Narottam Chand**, R.C. Joshi and Manoj Misra, "Energy Efficient Cache Invalidation in a Disconnected Wireless Mobile Environment," *International Journal of Ad Hoc and Ubiquitous Computing (IJAHUC)*, Vol. 2, No. 1/2, pp. 83-91, 2007.
- **Narottam Chand**, R.C. Joshi and Manoj Misra, "Supporting Cooperative Caching in Mobile Ad Hoc Networks Using Clusters," *International Journal of Ad Hoc and Ubiquitous Computing (IJAHUC)*, Vol. 2, No. 1/2, pp. 58-72, 2007.
- **Sunil**, Anu Sharma and R. G. Shandil: Effect of magnetic field dependent viscosity and rotation on ferrothermohaline convection in the presence of dust particles, *International Journal of Applied Mechanics and Engineering*, vol. 12, no. 01, pp. 197-213 (2007).
- **Kaith, B. S., Singha, A. S.** and Chauhan, Ashish, "X-Ray Diffraction Studies and Thermogravimetric / Differential Thermal Analysis of Graft Co-polymers of Methylacrylate onto *Hibiscus sabdariffa* Fiber" *Journal of Polymer Materials*, 23(4), 349-356).
- **Pradhan S. K.**, D. R. Parhi and A. K. Panda, Navigation Technique to control Several Mobile Robots, *International Journal of Knowledge-Based and Intelligent Engineering Systems*, Vol. – 10 (5), Pages 387-401.
- **Sharma Rajiv**, Kumar, D, Kumar P., (2007), A Framework to Implement QCS through Process Cost modeling, *International Journal of Total Quality Management, TQM* Vol. 19 (1), pp 18-36.
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- **Susheel Chauhan**, (2007)"Sensitivity Based Hybrid Approach for Voltage Instability Alleviation Using ANN", *International Journal of Power and Energy Systems*, Vol. 27, No.1.
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### Saraswati Puja

Saraswati puja was celebrated on 23<sup>rd</sup> January, 2007 with a lot of enthusiasm and fervor by our students. About 1100 devotees from within and outside the college came to offer prayers to goddess of knowledge on this auspicious occasion. This day reminds the students of their ultimate responsibility, which is to empower the society with knowledge.



A view of the Idol of Goddess Saraswati erected In Kailash Hostel



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- **A.S. Singha, B.S. Kaith** and Kiran Kumar "Application of Isphagula-cl- Poly (AA) in the removal of water from oil – water emulsion", proceedings of 7th International Oil and Gas Conference and Exhibition (PETROTECH- 2007) held at New Delhi w.e.f. January 15-29, 2007.
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- **Sharma Y. D.,** and Satish Kumar, "Thermoelastic Reyleigh waves in microstreach halfspace undelying an inviscid fluid layer", Thermal Stresses 2007 International Conference.
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- **Veena Sharma** , " DGA based transformer incipient fault diagnosis" has been published in the proceedings of 6th International R& D , held at Lucknow w.e.f. 13-16 February, 2007.
- **Amanjeet Kaur, Neetu Kapoor** "Sustainable Architecture" National Conference on Technological Advances and Emerging Societal Implications (TAESI-2007), March 24-25, 2007, NIT, Rourkela.
- **Rakesh Sehgal, Suresh Dhiman & Kumar Pranshu,** " Variable speed drive- synthesis, fabrication and analysis", presented in the Global Conference on Production and Industrial Engg. CPIE-2007 held at NIT Jalandhar w.e.f. March 22-24, 2007.
- Amit Chauhan, **Rakesh Sehgal & Manu Dogra,** "Influence of sliding velocity and Cu addition on friction and wear behaviour of Al-Si base cast alloy", published in the proceedings of Global Conference on Production and Industrial Engg. CPIE-2007 held at NIT Jalandhar w.e.f. March 22-24, 2007
- **R. K. Jarial, R. A. Gupta, R. S. Anand Y. R. Sood,** "Some Aspects of Modeling and Transient Performance Analysis of Static Slip Power Recovery Drive" presented and published in the proceedings of National Conference on Power Electronics and Intelligent Control- 2007, to be held at MNIT Jaipur, March 17-18, 2007.
- Vivek Chauhan, Amit, Ashfaque, **R. K. Jarial, Y. R. Sood,** "Salient Features of Design of Microprocessor Based Firing Scheme for a Three Phase Line Commutated Inverter" presented and published in the proceedings of National Conference on Power Electronics and Intelligent Control- 2007, to be held at MNIT Jaipur, March 17-18, 2007
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## NIT Hamirpur Delegation Visited UTS, Sydney

In order to conduct high quality research it is essential to know how other leading institutions are working and what facilities are available with those institutions. Under the able guidance of its Chairman, Board of Governor it was decided to explore the possibility of working closely with some of the reputed universities within India and abroad and tie up with them for various academic activities to pursue the goals as laid down by the Institute. The institute in its effort contacted several universities and could find one partner namely University of Technology Sydney which showed interest in a tie up with NIT Hamirpur and help in delivery of quality education. A delegation of faculty members from University of Technology, Sydney Australia (UTS) visited India and about fifteen faculty members of NIT Hamirpur participated in the discussions held with them at Shimla in March 2006. On pursuing the issue and establishing confidence in each other another delegation from UTS visited India and signed an MOU with NIT Hamirpur on November, 2006. The MOU broadly facilitates collaboration in various areas such as helping in creation of research facilities and in conduction of research. It also suggests that the collaborative research programmes, joint consultancy works, faculty and students exchange programme etc. could be taken. All this is expected to strengthen the collaboration between UTS and NIT Hamirpur and also adding more institutions form India and Australia to work jointly in the research areas which are of current interest. In this regard, UTS and NIT Hamirpur along with DCE and TERI have already submitted one proposal for the strategic research fund to Department of Science and Technology, Government of India for supporting these activities, which is under active consideration.

In order to achieve the objective as laid down in MOU signed between two institutions it was essential to understand each other systems and explore the specific areas where the work could be carried out jointly at both the institutions. An invitation was received from UTS that a team may visit UTS during 10-14<sup>th</sup> of April, 2007 and identify the areas in which the joint collaborative work could be carried out. A delegation of four member from NIT, Hamirpur including the Dr. R.L. Chauhan, Chairman BOG, Dr. I.K. Bhat, Director NIT, Dr. A.S. Singha, Dean (Academic) and Dr. Anoop Kumar, Coordinator Energy Centre visited UTS during proposed period. On reaching UTS the team held intensive discussions with various functionaries and Heads of Research Groups of UTS.

During the deliberations, Prof. Archie Johnston, Dean Faculty of Engineering while introducing the NIT Delegate members to UTS Faculty praised the good work done by NIT Hamirpur in the field of Technical Education rated NIT Hamirpur as one of the leading institutions among the NITs. The Indian Delegation held extensive deliberations and visited various facilities, labs, centres of excellence and looked at the facilities that could be used by the students and the faculty of NIT Hamirpur for pursuing their research and development activities. On the basis of these discussions the Indian Delegation made few presentations and these were on : Technical Education System in India and Introduction to NIT, Hamirpur and the possible areas in which the collaboration programme can be started immediately. The discussion held by the visiting delegation helped to understand the programme structure, the course contents, financial implications, academic requirements, the evaluation system of UTS etc. The visit helped in understanding the academic environment in which UTS works and also identify the research areas of strength wherein more faculty members could be sent for training purposes so as to give them an exposure and on their return can contribute in developing similar facilities at NIT Hamirpur.

Some of the areas where both the institutions can start the collaboration for training and research were, Robotics and Mechatronics, Autonomous Systems, Bio-medical and Bio-Technology, Energy management and policy, Material Science and Nanotechnology, Electronics and Tecomunication Technology, Microwave Propagation, Wireless Computing and Security.

UTS has agreed to provide training to the faculty members of NIT, Hamirpur in the areas of its strengths. It also agreed to organize jointly: short term training programmes and conferences, projects to be submitted to various funding bodies, to facilitate the research and development works in both the institutions.

## Campus Close-up

- A new office section building of our institute was inaugurated by Sh. Virbhadra Singh Jee, honorable chief minister of Himachal Pradesh, on 31<sup>st</sup> January 2007. He was accompanied by Dr. R.L. Chauhan, Chairman BOG of our institute, and other dignitaries on this occasion. The new office section space, which is equipped with all modern amenities, has been constructed to house various administrative sections of our institute. On this eve, the third issue of our institute Newsletter was also released by the chief guest apart from the laying of foundation stone of extension of our central library building.
- Construction of many infrastructural facilities is in progress. Presently, the extension of various department blocks and the construction of new buildings of Architecture department, residential blocks, central library, hostel and computer centre complex are in full swing.



Sh. Virbhadra Singh Jee releasing the third issue of our Institute Newsletter

## Placement and Industry Institute Interaction

Placement till 5<sup>th</sup> April 2007

### B. Tech.

S.No.	Discipline	Total students in final year	Total students placed through Placement Cell	Percentage of placement
1.	Elect.& Comm.Engg.	45	44+1*	97.77
2.	Comp.Sc. & Engg.	31	30+3*	96.77
3.	Electrical Engg.	37	33	89.18
4.	Mechanical Engg.	41	41+7*	100.00
5.	Civil Engg.	29	26	89.65
6.	B.Arch.	25	15	60.00
<b>Total</b>		<b>208</b>	<b>189+11*</b>	<b>90.86</b>

\* Eleven students have got two jobs

### M. Tech.

S.No.	Discipline	Total students in final year	Total students placed through Placement Cell	Percentage of placement
1.	Mechanical Engg.	10	4+1*	40.00
2.	Electrical Engg.	13+2	11+3*	84.61
3.	Civil Engg.	2	2	100
<b>Total</b>		<b>25</b>	<b>17+4*</b>	<b>68.00</b>

\* Four students have got two jobs

Following events were organized under Industry-Institute Interaction:

- An expert lecture was arranged for B.Tech. pre-final and final, M.Tech. pre-final and final year students on the topic **“FROM CLASSROOM TO BOARDROOM- PREPARING FOR THE JOURNEY”** on **14<sup>th</sup> March, 2007** under Industry -Institute Interaction programmen at NIT Hamirpur. The expert lecture was delivered by **Mr. Vivek Sharma**, Associate Partner with the Chicago office of the Global Strategy Consulting firm **McKinsey & Company**.
- A **contact programme** was conducted by **M/S ESSAR Group, Gujrat** on **19<sup>th</sup> March, 2007** for B.Tech. final year students selected from our institute during campus interviews held at NIT Hamirpur on **21<sup>st</sup> & 22<sup>nd</sup> August, 2007**. Discussion was held between faculty members from NIT Hamirpur and M/S Anant Kumar Sapre, Joint General Manager ELC, ESSAR Group to chalk out plan for industry **institute interaction**.
- Memorandum of outstanding (**MOU**) signed on **20<sup>th</sup> April, 2007** between **NIT Hamirpur (HP)** and **Small Industries Service Institute, (SISI) Chambaghat, Solan (HP)** regarding conducting of tailor made course for **new entrepreneurs** namely Business Skill Development Programme (**BSDP**) at NIT Hamirpur(HP).

## Miscellaneous

- During last three months, 1846 books and 95 journals were added in our Central Library. Library finally started issuing books using LIBSYS software.
- Recently, our internet bandwidth has been upgraded and additional 8 mbps has been added.
- Wi-fi facility has been provided in the institute administrative corporate office along with 20 IP telephones.
- A six days "Healing Breath Workshop" (The Art of Living-course) was organized during 16th January 2007 to 21st January 2007. Seventy five students of our institute attended this course.
- A soldering workshop was organized by E&C Deptt. on 22<sup>nd</sup> Feburary, 2007 in which students were taught soldering skills. Nearly 40 students participated in the workshop.
- Eight students of NIT Jalandhar were trained by Sh. Anil Kumar and Sh. Ashwani Sharma of CSE deptt. in configuring Sun Solaris Systems under Institute Networking.



A view of "Art of Living" course at NIT Hamirpur

## Recognition and Awards

- **Ar. Minakshi Jain**, AP, Deptt. of Architecture, received an award from A3 foundation, Chandigarh for her research work on Sustainable Development of Eco Fragile Areas of Brahmaur (HP).
- **Ar. Aman Jeet Kaur**, Lecturer, Deptt. of Architecture received "Sustainable Teacher Award" for the year 2006-07, awarded by A3 Foundation at a Function in Chandigarh on 11-02-07.
- **Dr. Rakesh Sehgal**, Professor, MED, Chaired a technical session in the Global Conference on Production and Industrial Engg., CPIE-2007 held at NIT Jalandhar during March 22-24, 2007.
- **Dr. Umesh Sharma**, AP, CED, became the member of panel of reviewers for International Journal of Materials in Civil Engineering, American Society of Civil Engineers.
- **Dr. Yog Raj Sood**, Professor, EED, co-chaired a technical session under the theme, "Deregulation & Restructuring of Power System on 29-12-2006, in NPSC-2006 at IIT Roorkee.
- **Dr. L K Awasthi**, Professor & Head, CSED chaired a technical session at International Conference on "Network Security & Workshop (ICONS 2007)" at Sengunthar Engineering College Thudupathi, Tamil Nadu on 29-31 Jan' 07.
- **Dr. Narotam Chand**, Lecturer (SG), CSED, became reviewer of International Journals of Computer & Electrical Engineering and Journal of Information Technology.



Ar. A. Jeet Kaur (top) and Ar. M. Jain (below) receiving awards by A3 foundation



## Forthcoming Events

- Short Term Course on Fundamentals of Tribology being organized by Department of Mechanical Engineering National Institute of Technology, Hamirpur [HP] : 177005 from July 9 – 20, 2007 under TEQIP NIT Hamirpur HP.
- National Conference on Design Techniques for modern electronics devices, VLSI & Communication systems, DTVC-2007 being organized by E&CED on May 14-15, 2007 under TEQIP NIT Hamirpur HP, DIT & VLSI Society of India.
- Short-term training programme on HDL & VLSI EDA tools from May 21-25, 2007 under TEQIP.
- Short-term course on repair & maintenance of electronic & electrical gadgets under UPA and TEQIP from June 11-15, 2007.
- International Workshop on Seismic Evaluation And Strengthening of Existing Structures (SESES 2007) from 15-16 June 2007 being organized by Department of Civil Engineering jointly with HIPA at Shimla.
- National Conference on Emerging Trends in Computing and Communication (ETCC-2007) being organized by Department of Computer Science and Engineering from 27-28 July 2007.
- Community Course on Audio Visual Aids and Teaching Learning Practice from 9-13 July 2007 (Library).
- Community Course on Conventional and Advanced Machining Processes 28<sup>th</sup> July – 2<sup>nd</sup> August 2007 (MED/Workshop).

### From The Editors

This Newsletter is a step in the direction of increasing communication among the various technical institutes. There is an urgent need to develop a comprehensive picture of what is happening across the globe in current fields. Developmental works are better paced and organized only when there is better communication. Since the publication of last issue of Institute newsletter, in December 2006, many major events of academic significance have taken place in NIT Hamirpur. This issue to be released in May 2007 carries a brief pictorial summary of these memorable events. For more information please visit our website.

### Editorial Board

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