



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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From the Director's Desk

Dear Readers,

It gives me immense pleasure to present to you this issue of newsletter. Since the issue of last newsletter, this period has also been quite satisfactory. Lot of activities and initiatives have been carried out at NIT-Hamirpur during this period and I am sure you will appreciate the same. As usual one can see that NIT-Hamirpur has been a for-runner in the area of R&D, faculty development initiatives, community concerns, curriculum development, and infrastructure to name a few areas. Recently, World Bank has reported that NIT Hamirpur is much ahead of other institutions (available on our website). A brief of the same is also shown in this newsletter as well.



Prof. I. K. Bhat, Director

With expansion of Technical Education System, the country is facing a challenge to produce & upgrade faculty. This Institution is proud to have taken steps to organize several programmes and helped - faculty members from other institutions to upgrade them, so that quality of education imparted in these institutions is enhanced. All of us at NIT-Hamirpur are conscious of the fast pace of changes taking place throughout the world and in order to produce world-class manpower. This Institution has put in efforts to create best infrastructure, laboratories, and facilities to equip students to handle various challenges.

A special feature reported in this newsletter is the celebration of 50th community workshop. It is worth mentioning that out of 140 Community Development Workshop carried out by institutions through out the country this Institution has organized 54 programmes. I would put on record on our wishes to all the Coordinators of the workshops and other programmes such as Training Programmes, Short Term Courses, Tribal Development Programmes etc.

At the end I am sure you will appreciate the efforts put forward by faculty, staff and students for making a mark in the field of Technical Education. Besides the entire team of newsletter has worked hard to improve the design and edit contents to make newsletter more attractive and informative to the readers. We are overwhelmed by the tremendous response received from our readers, which has been a great source of inspiration from all of us. We feel this issue will also be equally useful to our readers.

Jai Hind.

Prof. I. K. Bhat
DIRECTOR

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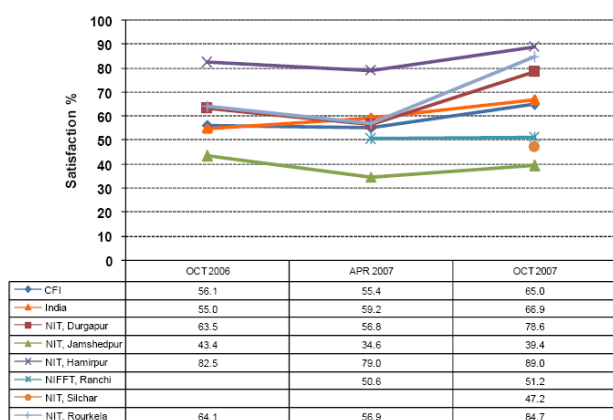
Phone: 01972-254001, Fax: 01972-223834, Email: newsletter@nitham.ac.in
Web Site: <http://www.nitham.ac.in>

World Bank Report on Centrally Funded Institutions

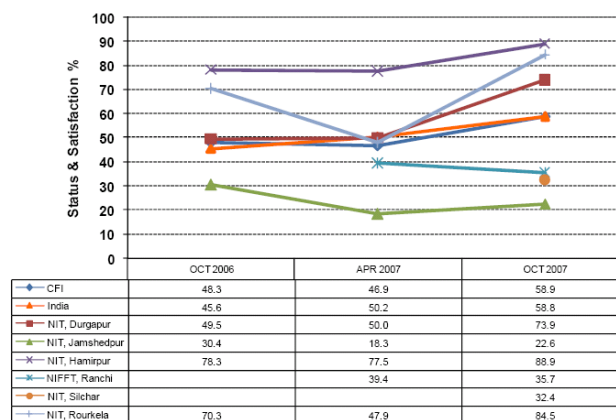
World bank surveyed faculty satisfaction of Centrally Funded Institutions participating in the Technical/Engineering Education Quality project (TEQIP). The brief examines faculty satisfaction with emphasis on the following nine important aspects of faculty's working environment; (1) Overall Satisfaction, (2) Status & Satisfaction with incentives, recognition and administration, (3) Professional Development, (4) Improvement/quality in teaching-research infrastructure, (5) Satisfaction with quality of library, (6) Status & Satisfaction with teaching (self-reported), (7) Utility of and Satisfaction with Teachers Evaluation of Students, (8) Utility of and Satisfaction with Students Evaluations of Teachers, and (9) Extent of outside collaboration (community & network activities) have carried out by the World Bank auditors. The survey was administered in three rounds from September 2006 to September 2007 to collect faculty opinions and perceptions about satisfaction of working environment in the institutions. The faculty satisfaction, expressed in percent, is the average of the faculty satisfaction in each question in that category. Summary of the report is presented below. Almost all the cases NIT Hamirpur is leading over all other centrally funded Institutions.

STATE BRIEF – TEQIP – FACULTY SURVEY – CENTRALLY FUNDED INSTITUTIONS –

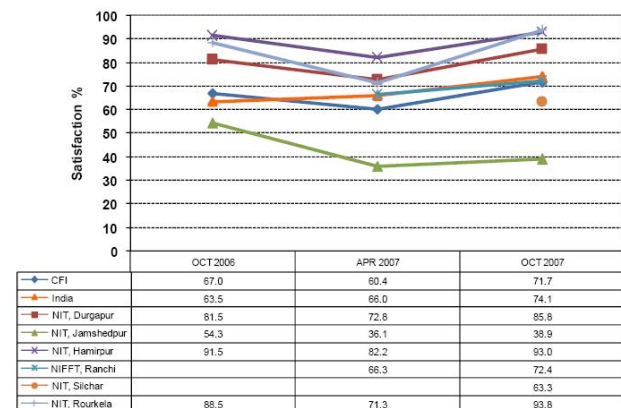
1. OVERALL SATISFACTION -3



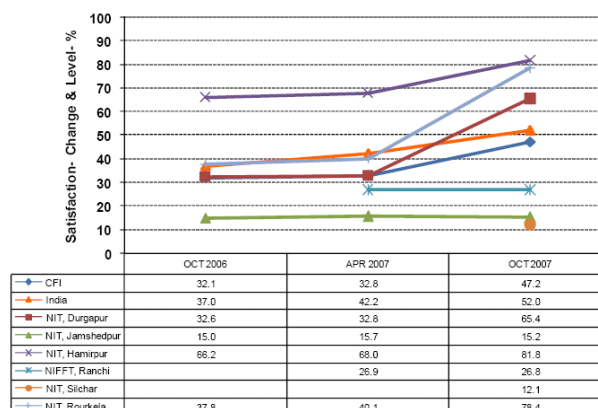
2. STATUS & SATISFACTION WITH INCENTIVES, RECOGNITION AND ADMINISTRATION -3



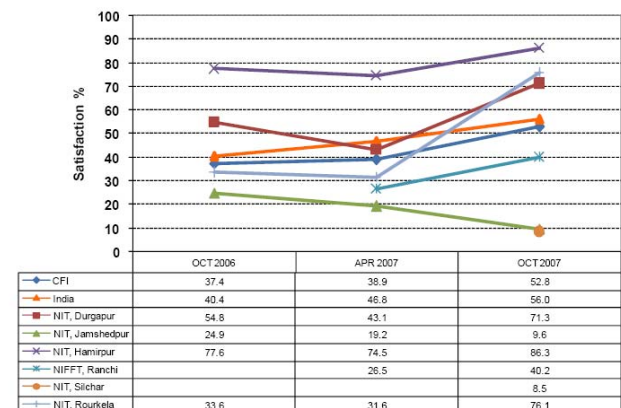
3. PROFESSIONAL DEVELOPMENT -3



4. IMPROVEMENT/QUALITY IN TEACHING-RESEARCH INFRASTRUCTURE -3



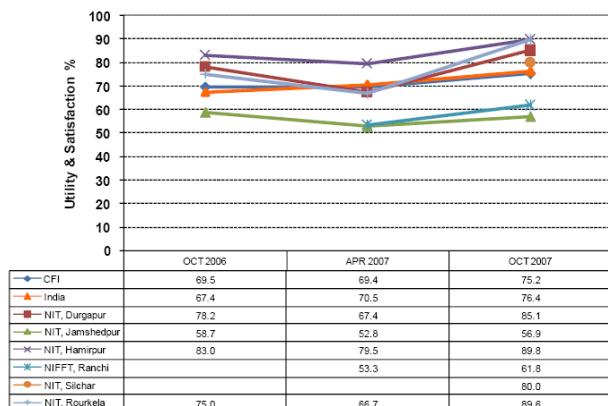
5. SATISFACTION WITH QUALITY OF LIBRARY -3



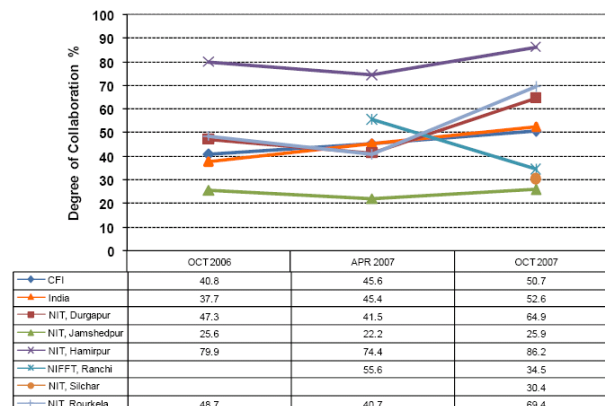
6. STATUS & SATISFACTION WITH TEACHING (SELF-REPORTED) -3



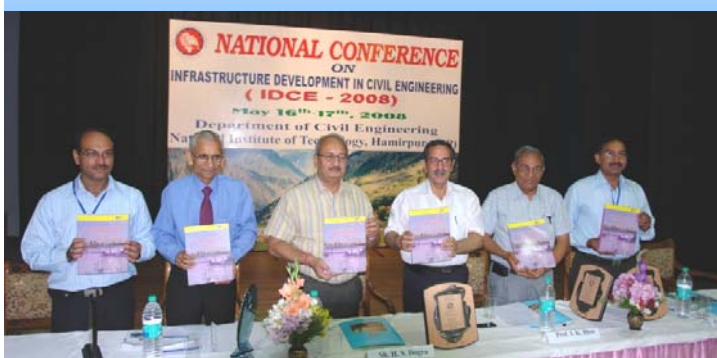
7. UTILITY OF AND SATISFACTION WITH TEACHERS EVALUATION OF STUDENTS -3



9. EXTENT OF OUTSIDE COLLABORATION (COMMUNITY & NETWORK ACTIVITIES) -3



Conferences / Workshops Conducted



Proceeding release of "National Conference on Infrastructure Development in Civil Engineering"



Lighting of lamp at inauguration of National Conference on Infrastructure Development in Civil Engineering



Lighting of lamp at inauguration of National Workshop VCS-08

- A National Conference on **"Infrastructure development in Civil Engineering"** was organised by Department of Civil Engineering during May 16-17, 2008. The organizing committee comprised of: Advisor – Prof. R.L. Sharma, Chairman - Dr. R. Parti, Co-Chairman - Dr. R. K. Dutta. Organizing secretary - Dr P. Kumar, Jt Secretaries - Dr S. S Katoch and Dr V. S. Dogra. Sh. H.S. Dogra, Director General (Works), CPWD was the Chief Guest of the inaugural function and released the Conference Proceedings and Souvenir. Chief guest also released Civil Engineering Department Brochure. Prof. S.K. Kaushik (FNAE) and Emeritus Prof. S.L. Dhingra, from IIT Bombay were the Guests of Honour in the inaugural function. Prof. S. K. Kaushik, Sh. V. P. Dudeja, Prof. S. L. Dhingra, Prof. K. G. Sharma, Prof. G. Ramaswamy, Prof. P. K. Garg, Prof. M. Dutta, Prof. A.K. Nema and Prof. Vinod Tare delivered key-note addresses on various relevant themes of conference. Apart from key-note addresses 75 research papers on different areas were included in the proceedings of the conference. During the conference the exhibitors such as Globus infocom, AIMIL, Elcome Technologies, Reprographics India, HEICO Pvt. Ltd etc. displayed their products.
- The National Workshop on **"VLSI & Communication Systems"** was organized by Department of Electronics & Communication Engineering, NIT Hamirpur, on 5th and 6th June 2008. The course was highly beneficial to over 50 participants of various Technical Institutes & other organizations from Punjab, Haryana and different places of Himachal Pradesh who registered for the National Workshop. The technical session commenced with the expert Lecture of Dr. R. Chandel on Communication fundamentals, followed by the expert talk on Satellite Communication by Er. Gargi and Wi-Fi installation by Er. A. Kumar. Prof. V. Kapoor delivered expert lecture on Optical Fiber Communication, Dr. R. Chandel on VLSI Fundamentals and Er Krishan talked on Mobile communication. Er. R. Kumar of Texas Instruments Bangalore was the main expert in VLSI and delivered expert lectures on DFT & SOC VLSI Design. Coordinators were Dr. R. Chandel, Er. G. Khanna and Er K. Kumar.
- World Environment Day was celebrated on June 05, 2008 at NIT Hamirpur. On this occasion a seminar on **'Energy and Environment: Scenario 2020 [EES 2020]** was also organised. Co-ordinators: Dr. S. S. Katoch and Er. Varun.

Short Term Courses/Training Programmes Conducted

- Department of Mechanical Engineering of NIT Hamirpur organized a AICTE/ MHRD Sponsored two weeks Summer School on “**CAD/CAM/Optimization Techniques**” from 2 June – 13 June 2008. 25 participants attended the course. The participants were exposed to the Overview of Computer Aided Design, Curve Design, Surface Modelling, Solid Modelling, Design of Freeform Surfaces and solids. Architectural CAD, Bio CAD: Human Body Modeling, CNC Systems and Machine Tools Overview, Basics of NC Part Programming, flexible manufacturing systems, computer integrated manufacturing system, Manufacturing Three-Dimensional Components at the Meso and Micro Scales: The role of Micro Metrology, Rapid Manufacturing, Manufacturing of Curved Surfaces, Traditional Optimization Overview, Linear programming, Non-linear programming, Optimization Techniques & single variable Optimization techniques, Multivariable Optimization techniques, Evolutionary Optimization Techniques. Prof. A. D Bhatt, Prof. S. Chauhan, Prof R. Parti, Prof. A. Kumar, Prof. R. Sehgal, Mr. S. R. Chauhan, Mr. Siddhartha, Mr. Varun, Mrs. Venusreer of NIT Hamirpur Prof. B. Das Gupta, IIT Kanpur, Prof. P.V.M Rao, IIT Delhi and Prof. P. Tandon, IIIT Jabalpur were the resource persons for the summer school. The coordinators of the Summer School were Professor Prof. A.D. Bhatt, Mr. Siddhartha and Mr. Varun.
- As a part of ongoing series of AICTE/MHRD sponsored Short term courses a two week short term course titled “**Signal Processing and Artificial Intelligence with applications in Biomedical Engineering**” was organized by Electrical Engineering Department NIT Hamirpur from 16th June-27th June. The course was inaugurated by Prof. I K Bhat, Director NIT, Hamirpur. Dr. R. N.. Sharma, Sh. H. Handa and Sh. A. Kaul were the Course Coordinators. Twenty-seven participants participated in the course. Faculty from IIT, NIT and other premier institutes delivered expert lectures on various aspects of Signal processing, Artificial intelligence and Biomedical Engineering in the course. In all 25 lectures each of two hours and 2 demonstrations were conducted during the course.
- Two weeks Summer School on “**Application of MATLAB, OrCAD/ SPICE Simulation tools in Engineering (MOS-2008)**”, was inaugurated by Prof. I. K. Bhat, Director NIT Hamirpur HP. The course was sponsored by MHRD/AICTE and organized by Electrical Engineering and E&CE Departments of NIT Hamirpur HP. The summer school was held from 30th June- 11th July, 2008. Participants were exposed to MATLAB, OrCAD SPICE, LABVIEW, PSIM and DSPACE. The technical sessions on MATLAB were conducted by Dr. A. K. Chandel and Er. Venkatesulu from Cranes Software Bangalore. The participants showed enthusiastic zeal to learn maximum from the experts. Hands-on-practical training was provided to the participants. The feedback of the participants is very encouraging. There was an overwhelming response for the course. 55 participants from all over India attended the course with full involvement. Dr. A. K. Chandel, Dr. R Chandel and Dr. R.K. Jarial were the Course Coordinators.



Coordinators of Summer Schools on CAD/CAM/Optimization Techniques



Group photograph of the STC on Signal Processing and Artificial Intelligence with applications



Prof. IK Bhat & Coordinators of Summer Schools- inaugurated on 30 June 2008



Release of Proceedings of Summer School DTV-08 & Brochure of E&CED



Lighting of lamp at inauguration of the STC on Mechatronics and Robotics

STC ON MECHATRONICS AND ROBOTICS 12th - 21st JULY, 2008 NIT HAMIRPUR (H.P.)



Group photograph of the STC on Mechatronics and Robotics

- Department of Electronics & Comm. Engineering of NIT Hamirpur organized AICTE/ MHRD Sponsored two weeks Advanced Summer School on “**Design Techniques for VLSI & Nanotechnology, DTV-2008**” from 12th to 21st July 2008. 47 participants faculty of Technical & Engineering Institutes of the country attended the course. An overwhelming response was received for the course. The participants were exposed to the advanced and emerging areas of VLSI Design & Nanotechnology. Various electronic design automation (EDA) tools viz. TANNER, OrCAD, MATLAB, Xilinx, FPGA were demonstrated and hands-on-training was given to the participants. Prof. I. K. Bhat, Director NIT Hamirpur, Prof. A. K. Saxena from IIT Roorkee, Prof. S. S. Rajput from NPL India & IIITM Gwalior, Dr. B. K. Kaushik from GB Pant Institute & IIT Roorkee, Er. Raghav from IMS Gurgaon, Mr. B. Manocha & Er. Manish from Powai Labs, Dr. R. Chandel, Dr. A. Chandel, Er. G. Khanna and faculty from E&CED NIT Hamirpur were the resource persons for the summer school. The coordinators of the Summer School were Dr. R. Chandel, Dr. A. K. Chandel and Er. G. Khanna. Er. Gagnesh was co-coordinator of the course.
- An AICTE/MHRD sponsored STC on “**Sustainable Energy Generation and Environmental Management**” organized by Departments of Mechanical, Civil and Electrical Engineering NIT-Hamirpur from June 16-27, 2008. 32 participants were trained in the course. Dr. A. Kumar Prof. & Head MED, Dr. R. N. Sharma Prof. & Head EED and Dr. S. S. Katoch CED were the coordinators and Sh. P. Kumar MED and Sh. Varun MED were the Co-Coordiators of the course. Prof. S. C. Mullick (IIT-Delhi), Dr. R. P. Saini (IIT-Roorkee), Dr. M. Pathak (IIT-Roorkee), Dr. S. Kumar (IIT-Mumbai) and Dr. M. G. Sharma (AEE-Hamirpur), Prof. I. K. Bhat, Prof. R. L. Sharma, Prof. R. Sehgal, Prof. A. Kumar, Prof. R. N. Sharma, Prof. A. D. Bhatt, Dr. N. S. Thakur, Dr. V. Sharma, Dr. S. S. Katoch, Dr. R. K. Sharma, Sh. P. Kumar, Sh. O. P. Rahi, Sh. Siddhartha, Sh. Varun and Ar. Venu Shree were the resource person (NIT-Hamirpur faculty) for the course.
- Department of Mechanical Engineering of NIT Hamirpur organized AICTE/ MHRD Sponsored two weeks Summer School on “**Mechatronics and Robotics**” from 12th to 21st July 2008. 55 participants were attended the course. The participants were exposed to Recent Trends in Mechatronics and Robotics, Robot Motion Planning Methods, Parallel Kinematic Machines, Robot path planning, PLC Programming, Geometric Transformation, Signals and Systems, Data acquisition, Robotics [AT], Case studies on Mechatronics, MuDRA, Navigation of Mobile Robots using Fuzzy Logic, Neural Network Technique, Potential Field, Simulated annealing method, Swarm Intelligence, Petri net model, Application of mobile robots in nuclear plant, Image processing, Microprocessor, Microcontroller, DSP, Nanotechnology, Nanocarbon, nanotubes, digital and analog electronics, Sensors, DC – Servo – Stepper motors. Prof. B. Dasgupta, IIT, Kanpur, Prof. S. K. Saha, IIT, Delhi, Prof. M. Pathak, IIT, Roorkee, Mr. M. K. Singh, NIT, Rourkela, Mr. Bhuvanesh J, from MTAB and Prof. I. K. Bhat, Prof. A.D. Bhatt, Dr. N. Chand, Dr. R. N. Sharma, Dr. V. Sharma, Sh. S. Chauhan, Sh. A. Rana, Sh. S. R. Chauhan, Prof. R. sehgal, Dr. R. K. Sharma and Dr. S. K. Pradhan were the resource persons for the summer school. The coordinators of the Short Term Course were Dr. S. K. Pradhan, Prof. R. sehgal, and Dr. R. K. Sharma.

- An AICTE/MHRD sponsored STC on “**Composite Materials**” organized by Departments of Mechanical and Civil Engineering NIT-Hamirpur from 30th June to 11th July, 2008. 17 participants were trained in the course. The coordinators of the Short Term Course were Mr. A. Patnaik, Dr. P. Kumar and Mr. S. R. Chauhan. Prof. R. K. Mittal, BITS, Pillani, Dr. A. Satpathy, NIT, Rourkela, Dr. I. Singh, IIT, Roorkee, Sh. R. Bagchi, NISST, Prof. I. K. Bhat, Prof. R. K. Sharma, Prof. R. Sehgal, Prof. A. Kumar, Prof. A. D. Bhatt, Dr. S. K. Pradhan, Dr. Rajesh Kumar Sharma, Sh. Siddhartha, Sh. Varun, Mr. S. R. Chauhan, Dr. P. Kumar and Mr. A. Patnaik of NIT Hamirpur were the resource person for the course.



Group photograph of the STC on Composite Materials

- NIT Hamirpur organized a two-week AICTE/MHRD sponsored programme on “**Orientation Programme for Technical Teachers**”. Prof. L. K. Awasthi, Prof. R. Kumar and Dr. R. Sharma were coordinators of the course. 40 participants from all parts of India mainly from states Punjab, Gujrat, Rajasthan, Uttar Pradesh, Haryana and Himachal Pradesh were trained in this course. There were 18 experts who delivered expert lectures on different aspects of teaching-learning process, curriculum innovation and revision, active learning, accreditation, administrative & financial rules and procedures. The course was inaugurated by Dr. I. K. Bhat, Director NIT- Hamirpur on 30th June, 2008, who was main expert to deliver talks on role of a teacher, active learning and accreditation. The programme ended on 11th July 2008 by distribution of certificates to the participants. The feedback of the participants was quite encouraging.



Lighting of lamp at inauguration of the STC on Orientation Programme for Technical Teachers

- One week STC on “**Safe Use & Maintenance of Electronics & Electrical Gadgets**” under UPA Grant of MUD was conducted by E&CED, NIT Hamirpur HP from 7-11 April 2008. The coordinators of the course were Dr. R. Chandel, Er. S. K Soni. Two expert lectures were delivered by Dr. R. Chandel on “Essentials of Electronic Gadgets” and “Essentials of Radio Communication. Prof. V. Kapoor on Optical Fiber Basics. Er. S. Soni on Use of CRO. Mrs. G. Khanna on Mobile Communication. Sh. A. Rana on Digital Electronics. Expert lecture on Mobile Software & fundamentals by Sh Vinod. Er. M.R. Bharti on Applications of Timer/OP-Amps. Dr. A. K. Chandel on Electrical Wiring & Safety Measures. Mrs. M. Sood on TV Visual Aids. Sh. A. Kumar on Display Techniques. Er. V. Kumar on Audio & Visual Systems.



Honorable Director Prof. IK Bhat delivering the Inaugural Address in STC held under UPA

Foreign Visits

Prof. L. K. Awasthi attended WorlComp08 at Los Vegas from 14th to 17th July 2008. On 18th July he visited University of Illinois and met faculty of Computer Science Department. On 21st and 22nd July he visited University of California, and met Professors and Deans and faculty of the Institution. On 23rd July 2008 he met faculty of Stanford University. He also visited Gladstone Institute of Research on 24th July 2008. He had opportunity to visit UC San Francisco on 28th July 08 and UC Berkeley on 29th July 08. Finally Prof. L. K. Awasthi could visit Lawrence Berkeley Research Laboratory on 30th July 08. The main purpose of his visit to various Universities and research institutes was to explore possibility of faculty exchange, student exchange and research & development ties with these Universities.



Prof. L. K. Awasthi discussing with Dean and faculty of University of California, USA

Papers Published in Journals (International)

- **A. Patnaik**, A. Satapathy, S. S. Mahapatra and R. R. Dash. "Tribo-Performance of Polyester Hybrid Composites: Damage Assessment and Parameter Optimization using Taguchi Design" *Materials and Design*, doi:10.1016/j.matdes.2008.04.057.
- **A.D. Bhatt**, R. Warkhedkar, "Reverse engineering of human body: A B-spline based heterogeneous modeling approach", *Computer Aided Design and Applications*, 5(1-4), 2008, pp 194-208.
- **A.S. Singha** and V. K Thakur "Mechanical properties of Natural Fiber reinforced Polymer Composites", *Bulletin of Material Science*, 31 (3), 2008.
- **A.S. Singha** and V. K Thakur "Sacccharum Cilliare Fiber Reinforced Polymer Composites", *E-Journal of Chemistry*, (DOAJ), 5(4), 2008.
- **A.S. Singha** and V. K Thakur "Synthesis and Characterization of S.Cilliare Fiber Reinforced Green Composites". *International Journal of Plastic Technology*, 2008.
- **A.S. Singha** and V. K Thakur "Synthesis of Hibiscus Sabdariffa Fiber Reinforced Polymer Composites", *Iranian Polymer Journal*, 17(7), 2008.
- **J .N. Sharma**, R. Sharma and **Y.D. Sharma**: "Generalized Rayleigh Waves in Thermoelastic Solids under Viscous Fluid Loading", *International Journal of Applied Mechanics and Engineering*, 13(1), 2008, pp. 217-238.
- **J. Singh**, **Y. R.Sood**, **R. K. Jarial**, P. Verma, "Earthing of High Voltage Laboratory", *International Journal of Electrical and Power Engineering*, 1(3), Asian Science Citation Index (ASCI)-22544, Medwell Online, pp.353-358.
- **J., Y. R. Sood**, **R. K. Jarial**, P. Verma, "Condition Monitoring of Power Transformer- Bibliography Survey", *IEEE Insulation Magazine*, 24 (31), 2008, pp. 11-25.
- **J.N. Sharma**, **Y.D. Sharma** and **P.K. Sharma**: "On the Propagation of Elasto-Thermodiffusive Surface Waves in Heat Conducting Materials", *Journal of Sound and Vibration*, 315 (2008) pp. 927–938.
- **M. K. Jat**, D. Khare, P. K. Garg and **V. Shankar** , "Remote sensing and GIS-based assessment of urbanisation and degradation of watershed health", *Urban Water Journal*, 2008, DOI: 10.1080/15730620801971920.
- **R. Chandel** and **A. Chandel**, "SPICE for Nano-regime VLSI Design–A Simulation Study", *IETE Journal of Education*, 48 (3-4), 2007, pp. 103-114.
- **R. R. Dash**, A. Gaur, C. Balomajumder, "Cyanide in Industrial Wastewaters and its removal: A Review on Biotreatment," *Journal of Hazardous Materials*, 2007, doi:10.1016/j.jhazmat.2008.06.051.
- **R. R. Dash**, C. Balomajumdar and Arvind Kumar, "Removal of metal cyanides from aqueous solutions by suspended and immobilized cells of *Rhizopus oryzae*", *Engineering in Life Sciences Journal*, June, 2008.
- **R. R. Dash**, C. Balomajumder, A. Kumar, "Removal of cyanide from water and wastewater using granular activated carbon, *Chemical Engineering Journal*" 2007, doi:10.1016/j.cej.2008.06.021.
- **R.K. Sharma**, and R. K. Pandey, "Thermohydrodynamic analysis of infinitely wide cycloidal profiled pad thrust bearing with rough surface and a comparison to plane profiled pad" 20(3), 2008, pp. 183-203.
- **S. Angra**, **R. Sehgal** and Z. Noori, "Cellular manufacturing- A time based analysis to layout problem", *International Journal of Production Economics*, 112, 2008, pp. 427-438.
- **S. K. Pradhan**, D.R.Parhi, A.K.Panda, "Fuzzy logic techniques for navigation of several mobile robots", *Applied Soft Computing*, DOI: 10.1016/j.asoc.2008.04.008.
- **S. Kumar**, P. C. Tewari and **Sunand**, "Performance Evaluation and Availability Analysis of Ammonia Synthesis System In A Urea Fertilizer Plant" *Journal of Industrial Engineering International*, 2008.
- **S. Kumar**, P. C. Tewari and **Sunand**, "Simulation Model for Evaluating the Performance of the Urea Decomposition System In a Fertilizer Plant" *International Journal of Industrial Engineering and Practices*, 27, 2008.
- **S. R. Chauhan**, **A. Kumar**, **B. Kaith**, **A. Patnaik** and A. Satapathy. "Mechanical and Wear Characterization of GF Reinforced Vinyl Ester Resin Composites with Different Co-Monomers" *Journal of Reinforced Plastics and Composites*, 2008 doi:10.1177/0731684408093823.
- **S. S. Katoch** and V. Kumar, "Modelling Seasonal Variation in Biomedical Waste Generation at Healthcare Facilities", *Waste Management & Research*, 26, 2008, pp. 241-246.
- **S. S. Mahapatra**, **A. Patnaik**, A. Satapathy, and R. R. Dash. "Taguchi Method Applied to Parametric Appraisal of Erosion Behavior of GF-Reinforced Polyester Composites" *Wear*, 265, 2008, pp. 214–222.
- **Sunil** and A. Mahajan: "A nonlinear stability analysis in a double-diffusive magnetized ferrofluid layer saturating a porous medium". "Journal of Geophysics and Engineering", 5, 2008, pp.311-322.
- **Sunil**, A. Sharma and R. G. Shandil "Effect of magnetic field dependent viscosity on ferroconvection in the presence of dust particles, *Journal of Applied Mathematics and Computing*, 27, 2008, pp.7-22.
- **Sunil**, A. Sharma, D. Sharma and P. Kumar: "Effect of magnetic field dependent viscosity on thermal convection in a ferromagnetic fluid, *Chemical Engineering Communications*, 195, 2008, pp. 571-583.
- **V. S. Sharma**, S. Dhiman, **R. Sehgal** and S.K. Sharma, "Assessment and optimization of cutting parameters while turning AISI 52100 steel", *International Journal of Precision and manufacturing*, 5 (9), 2008, pp. 1-10.
- **V. S. Sharma**, S. Dhiman, **R. Sehgal** and S.K. Sharma, "Estimation of cutting forces and surface roughness for hard turning using neural networks", *Journal of Intelligent Manufacturing*, DOI 10.1007/s10845-008-0097-1.

Papers Published in Journals (National)

- A. Chauhan and **R. Sehgal**, An experimental investigation of the thermal behaviour of offset halves journal bearing profile with different oils, *Indian Journal of Tribology*, 3(2), 2008, pp. 27-41.
- A. Satapathy, **A. Patnaik**, **Varun**, **S. K. Pradhan**, M. Diwedhy, "Optimization of Cutting Parameters in Turning Operations using Taguchi Method", *The ICFAI University Journal of Mechanical Engineering*, 1 (1), pp. 7-27.
- **K. Dutta** and **I.K. Bhat**, "Are Hamirpur School prepared for ICT", *Digital Learning*, IV (7), 2008, pp. 15-17.
- **P. Awasthi**, R.K. Mahajan "Synthesis of some sulphonamide insect juvenile hormone-Part I", *Indian Journal of Chemistry*, 47B, 2008.
- **R. Sehgal** and A. Sharma, "A graphical approach for kinematic design and development of an automatic stamping machine using four bar chain", *Indian Journal of Engineering & Materials Sciences*, 15, 2008, pp. 229-235.
- S. Dhiman, **R. Sehgal**, S. K. Sharma and V. Sharma, Machining behavior of AISI 1018 steel during turning, *Journal of Scientific & Industrial Research*, 67, 2008, pp. 355-360.
- S. Kumar, P. C. Tewari and **Sunand**, "Availability Analysis of CO Shift Conversion System In The Fertilizer Plant" *Journal of Industrial Engineering (IE Journal)*, 18, 2008.

Papers Published in Conferences (International/National)

- **A. D. Bhatt**, R. M. Warkhedkar, "From CT scan to analytical human anatomy", *Proceedings of International Conference on the Applications of Computerized Tomography "CT 2008"*, Kanpur, India, February 15-17, 2008, pp-1-4.
- A. Gupta and **L. K. Awasthi** "Secure Thyself": Securing Individual Peers in collaborative Peer-to-Peer Environments", pp. 140-46 at International conference on "Grid Computing and Applications" WorldCom08
- **A. Kaur**, N. Kapoor, "Project Management with System Design Approach" *National Conference on Infrastructure Development in Civil Engineering (IDCE-2008)* from May 16-17, 2008, Civil Engineering Department, NIT, Hamirpur.
- **A. Kaur**, N. Kapoor, "Quality Management in Architectural Education" *May, 2008 issue of Time, Space & People magazine of Council of Architecture*.
- **A. Kaur**, N. Kapoor, N. Kaur, "Computer and Architecture: Shaping the Techno Society" *National Conference on Infrastructure Development in Civil Engineering (IDCE-2008)* from May 16- 17, 2008 by Civil Engineering Department of NIT, Hamirpur.
- **A.S. Singha** and Thakur Vijay K. "Synthesis, Characterization and Study of Some Green Bio composites" *PBP 2008- 10th International Conference on Progress in Biofiber Plastic*, May 12-13, 2008; Toronto, Canada.
- **A.S. Singha** and Thakur Vijay K. "Mechanical analysis of Pine Needles Based Biocomposites", *5th East-Asian Polymer Conference*, June 3-6, 2008 Shanghai, China.
- C.S.P Ojha, K.S. Hari Prasad and **V. Shankar**. "Effective Water Resources Management Using Efficient Irrigation Scheduling", *National Conference on Infrastructure Development in Civil Engineering (IDCE-2008)*, May 16th-17th, 2008, organized by Department of Civil Engineering, NIT Hamirpur (HP)
- D. Yadav, **V. Sharma**, and **R. Naresh**, " Optimization techniques in water resources management" *National Conference on Infrastructure Development in Civil Engineering (IDCE-2008)*, Hamirpur (H.P.), India. W.e.f. May 16-17, 2008, Civil Engg. Deptt., NIT Hamirpur.
- **G. Khanna**, Preeti, **R. Chandel**, S. Sarkar, "Cross-talk Mitigation in Coupled VLSI Interconnects", *IEEE Symposium on VLSI Design and Test*, VDAT-08 23-26 July 2008, pp. 364 - 374.
- **I. K. Bhat**, "Benefits of Autonomy – A case study of NIT Hamirpur", *Proceedings of Workshop organized by World Bank at Indo-US Engineering Faculty Leadership Institute*, Global Education Centre, Infosys Technology Limited, Mysore, June, 2008.
- P. Eckert, **P. Kumar** and **V. Shankar**, "Sustainable Water Resources Management Through Riverbank Filtration – The Infra structural Perspective" *National Conference on Infrastructure Development in Civil Engineering (IDCE-2008)*, May 16th - 17th, 2008, organized by Department of Civil Engineering, NIT Hamirpur (HP).
- Pradeep, Manabesh, Utpal, **R. Chandel**, "Face Recognition by Gabor Wavelet", *International Conference on Cognition and Recognition*, Mandaya Institute of Tech, Karnataka, 12-14 April 2008, pp. 161 - 167.
- R. Kumar, **V. Shankar** and M. K. Jat. "Water Resource Development through Low Cost Rain Water Harvesting Structures and Ground Water Recharging", *National Conference on Infrastructure Development in Civil Engineering (IDCE-2008)*, May 16th-17th, 2008, organized by Department of Civil Engineering, NIT Hamirpur (HP).
- R. M. Warkhedkar, **A. D. Bhatt**, "Development of CAD in four decades: The State-of-the-Art", *Proceedings of International Conference on Frontiers in Design and Manufacturing Engineering (ICDM 08)*, Coimbatore, India, February 1-2, 2008, pp 72-77.
- **R. R. Dash** and Arvind Kumar, Performance evaluation of a waste stabilization pond system treating municipal wastewater, *National Conference on Infrastructure Development in Civil Engineering (IDCE-2008)*, National Institute of Technology, Hamirpur, May 16-17, 2008, pp. 479-484.
- R. Singh, **Y. R. Sood**, "Policies for promotion of Renewable Energy Sources in Restructured Power Sector" *DRPT 2008, IEEE International Conference*, April 06-09, 2008 at Nanjing, P.R. China.
- **S.S. Katoch** and **I. K. Bhat**, "Clwean Energy Technology Approaches of Mitigating Greenhouse Gases", *Proceedings of Indo-Italian Conference on Green and Clean Enviornment (GCE 2008)*, MAEER'S" MIT College of Engineering, Pune, March 20-21 2008.
- **V. Sharma**, R. Jha and **R. Naresh**, "GIS applications in water resources engineering" *National Conference on Infrastructure Development in Civil Engineering (IDCE-2008)*, India. w.e.f. May 16-17, 2008, Civil Engg. Deptt., NIT Hamirpur.

Services to Community Development Programme



Group photograph of the 50th Community Service Programme



Lighting of lamp at inauguration of the workshop on "ICT Infrastructure Awareness"



Inauguration of the Community Service Programme on "Water Supply and Sanitation Practices: Traditional Wisdom and Modern Technologies (WSSP-2008)"

- 50th Community Service Programme was organized during 2- 25th May 2008 at NIT, Hamirpur. The programme was based on theme: Information and Communication Technology in the Service of Society. Series of Competitions, workshops and visits were organized for school children. Around 1249 persons participated in these activities. A 3-week computer training programme was organized for the children of PRAYAS group. On 8th May 2008, children of Prayas group interacted with Prof. I.K. Bhat and other faculty members of NIT Hamirpur through video conferencing. The children of Prayas group gathered in the seminar room of Computer Science & Engineering Department whereas Prof. Bhat, and other faculty members were in Mechanical Engineering Department. Children enjoyed the session and interacted very confidently. On 16th May 2008, kids were taken to BSNL, Hamirpur and Police station. At BSNL SDO Mr. Virender Kanwar explained the phone facilities provided by BSNL. Mr. Asif Jalal, Superintendent Police, Hamirpur familiarized children with the wireless system used for tracking criminals by the police of Hamirpur. A survey to study the impact of the community service programme has also been undertaken. Under this survey, all those who have attended any programme at NIT Hamirpur are contacted to get their feedback about the usefulness of the programme for them. N ICT survey of various schools in Hamirpur was carried out to assess the status of ICT preparedness of the schools coping up with the future challenges. A souvenir was released to mark the celebration of 50th community service programme. The workshop on "ICT Infrastructure Awareness" was held during 23-25th May 2008. Those who were either graduate or had proficiency in computers attended the course. The whole event was coordinated by Mrs. Kamlesh Dutta, Dr. Narottam Chand and Prof. Lalit Awasthi
- Department of Civil Engineering under TEQIP organized a 5 days Short Term Training Programme (53rd Community Service Programme) on "**Water Supply and Sanitation Practices: Traditional Wisdom and Modern Technologies (WSSP-2008)**" during July 22-26, 2008. Prof. I K Bhat, Director, NIT Hamirpur was the chief guest of the inaugural function. 38 participants attended the course from various parts of Himachal Pradesh. The aim of the course was to generate a public awareness on fighting against water borne diseases, proper way of maintaining sanitation in house as well as in public places, how to maintain hygienic condition, how to reduce the solid waste, how to separate the waste based on its categories, how the water get polluted, how wastewater generated, where the waste is disposed, how these cause problems to the human and other living beings, how the world is getting polluted day by day. Opening lecture was delivered by Prof. I. K. Bhat. Prof. R.L. Sharma, Prof. Raman Parti, Prof. (Mrs.) Minakshi Jain, Prof. Anup Kumar, Dr. R.K. Dutta, Dr. S.S. Katoch, Dr. Vijay Shankar, Smt. Kamlesh Dutta, Sh. Rajesh Roshan Dash of NIT Hamirpur have delivered lectures on the various aspects of water supply and sanitation practices. The programme was coordinated by Dr. Surjit Singh Katoch, Dr. Vijay Shankar and Sh. Rajesh Roshan Dash with the help of the faculties and staffs of Civil Engineering Department.

- Department of Electrical and Electronics Engineering under TEQIP organized a 5 days Short Term Training Programme (Community Service Programme) on **“Hand on Practice in Repair & Maintenance of Electrical & Electronics Equipment/ Gadgets”** from 9th - 13th June 2008. Participants from various parts of Himachal Pradesh attended the course. The programme was coordinated by Dr. Ashwani Kumar Chandel, Mr. O. P. Rahi and Mr. Himesh Handa
- Department of Electrical and Electronics Engineering under TEQIP organized a 5 days Short Term Training Programme (Community Service Programme) on **Measuring Instruments and Electrical Appliances** from 8-12 July, 2008. Participants from various parts of Himachal Pradesh attended the course. The programme was coordinated by Prof. R N Sharma, Prof. Shusheel Chauhan and Dr. Veena Sharma.
- Under Urban poverty Development Programme a one week community course titled **“Safe Handling of Electrical Appliances, Their repair & Maintenance (SHEARM)”** Engineering “was organized by Electrical Engineering Department NIT Hamirpur from 14 to 18 July 2008. Dr. R. K Sharma, Dr. Ravinder Nath, Sh. Himesh Handa and Sh. Amit Kaul were the Course Coordinators. Twenty seven participants participated in the course.



DR. Veena Sharma delivering the Inaugural Address in STC held under Community Service

Tribal Development Programme

The National Institute of Technology Hamirpur has launched a drive to motivate the tribal people of Himachal Pradesh towards technical education, so that they can become more self reliant and lead a happy and prosperous life. As a part of this programme, the members of the tribal development committee has organized five workshops in Lahaul w.e.f. 12-05-08 to 18-05-08, for the benefit of tribal students in order to pursue technical education at NIT and other technical institutions.

The institute has taken this initiative under the dynamic leadership of Prof. I.K. Bhat, Director of this institute, and this programme is being sponsored by the Technical Education Quality Programme (TEQIP) of the World Bank. A team of Professors and technical staff for Tribal development Programme of the NIT, comprising of Prof. Piar Chand, Prof. Lalit Awasthi, Prof. R.K. Sharma, Sh. Yogesh Gupta, Sh. B.S. Rana and Sh. Surinder Singh held five workshops at Sissu, Tingrat, Udaipur, Keylong and Kolang. Prof Piar Chand, the Coordinator has said that the main objective of these workshops (under TEQIP) is to attract the tribal students or motivate their parents to send their wards for technical education. People of lahaul were very enthusiastic about this programme inspite of their busy schedule, i.e. agricultural season. It has been observed that Mahila Mandal, Yuvak Mandal, PRI's and Parents of school going children have played an active role in mobilizing locals for these workshops. In fact, tribal students and local people were so keen that hundreds of them attended these workshops. The average attendance was one hundred sixty per workshop.

During these workshops, TDP team informed people about the type of technical educational institutions available in the State, i.e. (From ITI's to University level technical educational institutes), both in Public and Private sector, Procedures of admission in these institutions for different courses, and eligibility criteria for AIEEE and JEE. The importance of IT education and its application in the modern era were also explained to the audience in broader prospective during these workshops.

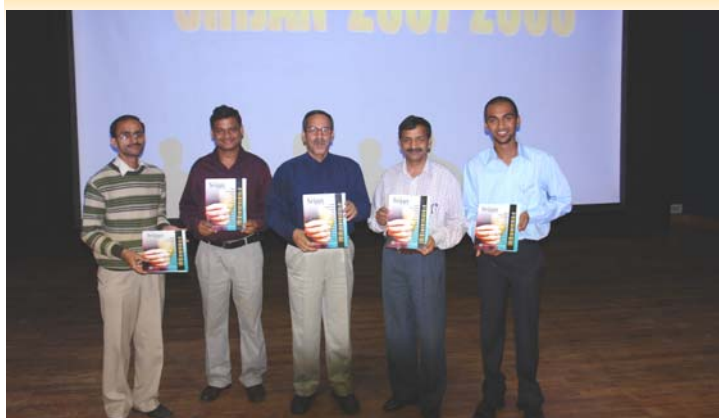


Distribution of workshop kits to the tribal students in Lahaul

Student Activity



1st year B.Tech and B.Arc. admission process for 2008 batch



Release of "Institute magazine SRIJAN (07-08) "



Release of Year Book "SANCHAYAN (07-08) "



Hostel night at VBH, NIT, Hamirpur

- The unveiling of the annual Institute magazine SRIJAN (07-08) was held on 15th of April, 2008. Prof. I.K. Bhat Director NIT, Hamirpur was the chief guest of the function. On this occasion student chief editor for the next edition i.e. SRIJAN 08-09, Mr. Prashant Pandey was also handed over the baton by the outgoing student chief – editor Mr. Arjun B. S. 1300 copies were distributed to the faculty, staffs and students.
- A farewell party for the final year students of 2004-08 batch was hosted by third year students in the institute auditorium on 1st May 2008. Prof. I. K. Bhat, Director was the chief guest of the event. Prof. L. K. Awasthi, Dean (S&A) welcomed the guests and students and wished the outgoing students a bright future. He urged the outgoing students to be in touch with the institute by becoming members of the Alumni Association to keep the NIT Hamirpur flag high. Prof. I. K. Bhat blessed the students with his kind words and told them to be honest and good citizens of our country India. For the first time in history of NIT Hamirpur, the students came up with year-book "SANCHAYAN" which was unveiled on this occasion by Prof. I. K. Bhat.
- From the academic session 2008-09, a web based online admission system for M.Tech and Ph. D. has been used for the convenience of applicants to make the process of applying to NITH as easy as possible. The online admission system was developed whereby students need not collect and/or submit physical forms. All information is collected online and is kept secure in a server. Students were required to visit the website of the Institute, fill in the admission form and submit it online. On successful submission, the students were electronically notified of the outcome. The Institute has also benefited in the management of the admission process. This has also added to the transparency in admission process, thus reducing the scope for widespread malpractices. This saved a lot of time and effort on the part of the Institute as well as for the applicants. Moreover, the list of admitted students was also displayed on the website, ruling out any chance of foul play. This system has been accepted with widespread praise and to the best of our knowledge is first of its kind in India. NIT, Hamirpur has designated C.C.B. counseling centre for the first time. In this capacity the Institute contributed to the national effort of centralized undergraduate admission. The counseling and admission to B.Tech /B.Arc 1st year was made successfully w.e.f. 4th to 14th July, 2008. This process was also automated for the first time.
- A three days tour was conducted for the Third year civil engineering student to Tehri dam, Wadia Institute of Himalayan Geology Dehradun, Department of Earthquake Engineering IIT Roorkee from 28th February to 2nd March 2008.
- A three days tour was conducted for the final year civil engineering students to Jammu Udampur railway line project and Vaishno Devi Shrine from 28th Mar to 31st March 2008.
- The farewell to final year civil engineering students was given on 2nd May 2008. Director NIT was graced the occasion and unveiled the first issue of the magazine Aadhar of Civil Engineering society (CSOC).
- Mr. V.Veeresh and Mr. V.Suryanaik M.Tech. students of VDAT E&CED presented papers in the National level Symposium on 07/03/2008 at Kurukshetra University.
- Mr. Achranshu Garg, Ms. Nupur Sood, Mr. Mohit, Mr. Nitin Vyas, Mr. N. D Ramesh, Ms. Aditi, Ms. Swati and Ms. Saroj Sharma Students of E&CED attended IIT Roorkee cognizance'08 Tech Fest 28-30 March 2008.
- PGH, DBH, SBH, MBH, VBH, KBH and ABH celebrate their hostel night in the month of April, 2008. In all the hostel night Prof. I. K. Bhat, Director was the chief guest of the event. Prof. L. K. Awasthi, Dean (S&A), Prof V. Kapoor CW and Wardens were present in the hostel night.

Courses, Seminars and Training Programmes Attended

- Five days training programme was conducted on Modern Surveying techniques and equipments during the surveying camp from 12th May to 17th May by Ms Elcome Technologies Gurgaon. The training was imparted to 2nd year students of CED. The training modules consisted of data collection – digital level, electronic theodolite, total stations and processing of the data using softwares Leica Geooffice and LISCAD to generate 3D Models, contours, topographic sheets.
- **Gagnesh, Rajiv, Pawan, Vishal, Sidhartha, O. P. Rahi, Krishan, Manoranjan, Gargi, and Vinod** attended MOS 2008 summer school organized by ECED & Electrical Engineering (30-11 July 2008).
- **Gagnesh, Vinod, Himanshu, O. P. Rahi, Pradeep, Rajiv, Dr. Vishal, and Ashwani Sharma** attended the national workshop on VLSI & Comm. Systems (VCS-2008) from (5th June – 6th June 2008).
- **I. K. Bhat** attended a course on “Academic Systems and Processes” workshop organized by Indo-US Engineering Faculty Leadership Institute, Global Education Centre, Infosys Technology Limited, Mysore, Conducted by V. Ravindran, 7 –8 July, 2008.
- **I. K. Bhat** attended a course on “Accountability and Autonomy in Engineering education: What is Working?” workshop organized by Indo-US Engineering Faculty Leadership Institute, Global Education Centre, Infosys Technology Limited, Mysore, Conducted by Krishna Vadula, 9 –10 July, 2008.
- **I. K. Bhat and L. K. Awasthi** attended a course on “Curriculum Innovation and Quality Assurance; a Roadmap for Excellence and Building Industry Academia Partnersip” organized by Indo-US Engineering Faculty Leadership Institute, Global Education Centre, Infosys Technology Limited, Mysore, Conducted by Lueny Morell, Jorge Velez – Arocho and Rosa Buxeda, 2 –6 June, 2008.
- **I. K. Bhat and L. K. Awasthi** attended a course on “Effective Teaching: Cooperative Learning; Effective Faculty Development Out-come based Education” organized by Indo-US Engineering Faculty Leadership Institute, Global Education Centre, Infosys Technology Limited, Mysore, Conducted Ashok Saxena, 29 –30 May, 2008.
- **I. K. Bhat** attended a course on “Preparation for India’s Membership in Washington Accord” organized by Indo-US Engineering Faculty Leadership Institute, Global Education Centre, Infosys Technology Limited, Mysore, Conducted by Richard Felder and Rebecca Brent, 26 –28 May, 2008.
- **I. K. Bhat and L. K. Awasthi** attended a course on “Preparation for India’s Transformational Leadership in Higher Education” workshop organized by Indo-US Engineering Faculty Leadership Institute, Global Education Centre, Infosys Technology Limited, Mysore, 11 – 12 July, 2008.
- **I. K. Bhat** attended a course on “Strategies for Effective Course Design and Delivery” organized by Indo-US Engineering Faculty Leadership Institute, Global Education Centre, Infosys Technology Limited, Mysore, Conducted by Veena Kumar and Rutgers, 9 –13 June, 2008.
- **I. K. Bhat** Director, NIT Hamirpur led a delegation of **L. K. Awasthi, A.S. Singha, R. Chandel, V. Kapoor** to meet with Texas Instruments representatives at Intercontinental Hotel Delhi on 18th April 2008 regarding Industry Institute interaction and possibility of mutual collaboration.
- **K. Dutta, S. Chauhan and N. Chauhan** attended AICTE/MHRD sponsored summer school on “Signal Processing and Artificial Intelligence with application in Biomedical Engineering” from June 16 – 27, 2008 at Electrical Engg. Deptt., NIT, Hamirpur.
- **L. K. Awasthi** attended a course on “Wireless Technologies” organized by Indo-US Engineering Faculty Leadership Institute, Global Education Centre, Infosys Technology Limited, Mysore, Conducted by P. Kumar from Urbana Champion, 9 –13 June, 2008.
- **L. K. Awasthi** attended one week Training program on “Positive Power Influence during People Quest –Building in India” at Hotel Shangrila New Delhi by Alstom University from 1st to 4th April 2008.
- **L. K. Awasthi** attended WorlComp08 at Los Vegas from 14th to 17th July 2008.
- **M. R. Bharti**, Lect. E&CED attended the Workshop on “MSP430 Microcontroller and Power Electronics/Power Management Solutions” at SJCE Mysore w.e.f. 3rd to 5th June, 2008.
- **N. Chauhan** attended short-term training program on “Information Security: Principal, Methods and Tools” from May 5 – 23, 2008 IISc Bangalore.
- **N. Gupta, Mr. R. Kumar, Mr. P. Singh** attended a short term course on “ VLSI and Communication System (VCS-08)” organized by Department of Electronics and Communication on June 5– 6, 2008 at NIT Hamirpur.
- **N. Gupta, R. Kumar, P. Singh** attended a short term course on “Orientation Program for Technical Teachers” on June 30 - July 11, 2008 at NIT Hamirpur.
- **R. Chandel & K Dutta** attended ZOPP-08 Workshop under SMDP-II at IIT Kanpur from Feb 11-13, 2008.
- **R. Chandel and G. Khanna** participated and presented paper in IEEE Symposium VDAT-2008, Wipro Campus, Bangalore, 23-26 July 2008.
- **R. K. Sharma**, attended a one-day workshop on procurement on 8th May at NPIU Noida.
- **R. Kumar, P. Singh, Gagnesh, U. K. Pandey, Mr. Varun, Mr. Siddhartha, and Mr. A. Patnaik** attended a short-term course on “Developing Effective Communication” organized by EQUATE sponsored by TEQIP on July 16– 18, 2008 at NIT Hamirpur.

- **S. Chauhan** attended AICTE/MHRD sponsored summer school on “MATLAB, Or CAD/ SPICE Simulation tools in Engineering (MOS-2008)” from June 30 – July 11, 2008 conducted by Electrical Engg. Deptt. and Electronics and Communication Engg. Deptt., NIT, Hamirpur.
- **S. Gupta, Mr. R Kumar and Mr. P. Singh** attended a short term course on “ New Trends in Mobile Communication” organized by Department of Electronics and Communication on June 23– 27, 2008 at RIET Railmajra (Ropar) Punjab.
- **S. K. Pradhan, K. Sharma and Varun** have attended AICTE/MHRD sponsored summer school on “Composite Materials” from June 30 – July 11, 2008 at Mechanical Engg. Deptt., NIT, Hamirpur.
- **S. Kumar** attended Launch Event of ABE (British Council) on April 04, 2008 at Chandigarh.
- **S. Kumar** attended One day Workshop (under TEQIP) on Communicating Communication Skills on April 09, 2008 at Deenbandhu Chhoturam University of Science and Technology, Murthal (Sonapat).
- **Sunil** has attended a workshop on "Usages of E-Resources" on 09-08-2008.
- Three days training programme was conducted on GIS with practical sessions on ARC view 9.2 from 2nd to 4th April 2008. The training was imparted to 4 faculties and 30 students from CED, NIT Hamirpur by NIITGIS Pvt. Ltd an alliance partner of ESRI Ltd.
- **V. Kapoor** attended "Training Programme on Project Management Fundamentals" during People Quest- Building in India, organized by ALSTOM University at Delhi on 1-4 April, 2008.
- **V. Kapoor** attended one week “Training program on Project Management Fundamentals during People Quest –Building in India” at Hotel Shangrila New Delhi organized by Alstom University from 1st to 4th April 2008.
- **V. Kapoor, S. Chauhan and P. Kumar** attended "Academic Quality Management” programme at NIT Calicut TEQIP on 17th - 18th July 2008.
- **V. Sharma** attended two weeks short-term training programme on “Sustainable energy generation and management” held in MED, during June 16-27, 2008. AICTE/MHRD sponsored course.
- **V. Sharma** presented a paper titled “GIS applications in water resources engineering” National Conference on Infrastructure Development in Civil Engineering (IDCE-2008) Hamirpur (H.P.), India. W.e.f. May 16-17, 2008, held in Civil Engg. Deptt., NIT Hamirpur.
- Vinod Sharma, Meenakshi Sood, Kusum, Meenakshi, Anjum attended summer School DTV-2008 organized by E&CED.
- **Y. R. Sood, R. K. Sharma, R. Sehgal, S. Kumar, V. Kapoor, R. N. Sharma, Sunil, V. Sharma, N. Chand, K. S. Pandey, R. K. Jarial and K. Dutta** attended a training programme on “Management Capacity Development for Faculty” organized by EQUATE under TEQIP during May 27-31, 2008.

Lectures Delivered

- **A. Chandel** delivered expert lectures on Introduction to MATLAB Software, Use of MATLAB for optimization problems, Minimization and Maximization of objective functions, graphical representation of data in 2D & 3D plots in AICTE Summer School on Application of MATLAB, OrCAD/ SPICE Simulation tools in Engineering MOS-2008, from 30th June to 11 July 2008.
- **A. D. Bhatt** delivered lectures on “ Human Body Modeling: Methods and Applications”, STC on Computer Aided Design at M. N. National Institute of Technology, Allahabad, July 30, 2008.
- **A. D. Bhatt** delivered lectures on “Advances in Rapid Prototyping, tooling and Rapid Manufactuirng”, STC on Computer Aided Design at M. N. National Institute of Technology, Allahabad, July 29, 2008.
- **A. D. Bhatt** delivered lectures on “Solid Modeling: Fundamentals:, STC on Computer Aided Design at M. N. National Institute of Technology, Allahabad, July 29, 2008.
- **A. Kaur** delivered a lecture on “Information and Communication Technologies for Smart Homes” in the workshop on "Information and Communication Technology in the Service of Society" held during 50th Celebration of Community Service Programme from May 2-25, 2008 at NIT Hamirpur.
- **A.S. Singha** delivered four lectures in the orientation programme for faculty w.e.f.30-06- 08 to 11-07-08 at NIT, Hamirpur on “Stress Management” ,” Student Counseling” , “Dynamics of Leadership” ,“Managing People and Time”.
- G. Khanna delivered expert lectures on Interconnects and Low Power Techniques in DTV-08.
- **I. K. Bhat** delivered lecture on the topic “Nanotechnology, nanotubes and nanocarons” on July 20, 2008 at NIT Hamirpur.
- **L. K. Awasthi** delivered expert lecture on “ Curriculum Development ” at AICTE/ MHRD sponsored summer school “Orientation Program for Technical Teachers” on June 30 - July 11, 2008
- **L. K. Awasthi** delivered lecture on “Use of Modern Teaching aids”, “Curriculum Development” and “Active Teaching-Learning” in AICTE/MHRD sponsored Orientation Program for Technical Teachers (OSTT-08) at NIT Hamirpur.
- **L. K. Awasthi** delivered lectures at AICTE/MHRD sponsored Faculty Development programme on “Distributed Computing” at NIT Kuruksetra, on “Distributed Check pointing” in 25th July 2008.
- **L. K. Awasthi** delivered lectures on 22nd July 2008 at University of California, Los Angles on “Computer Aided Anticancer Drug Design (CADD)- (Research work at NITH (H.P), INDIA)”.
- **N. Chand** delivered expert lecture on “Data Caching in MANETs” in a STC on Distributed Systems and Networks, June 26, 2008, NIT Kurukshetra.
- **N. Chand** delivered expert lecture on “Image Processing” in a STC on Mechatronics and Robotics, July 19, 2008, NIT Hamirpur.
- **N. Chand** delivered expert lecture on “Internet Services and Web Technologies” in a community development programme on ICT Infrastructure, May 23, 2008, NIT Hamirpur

- **N. Chand** delivered expert lecture on “Internet Technologies” in a STC on Orientation Programme for Technical Teachers, July 9, 2008, NIT Hamirpur.
- **O. P. Rahi** delivered an expert lecture on 20th June 2008 on the topic “Refurbishment of Hydro Power Plants” to the participants of MHRD / AICTE sponsored Summer School on Sustainable Energy Generation and Environmental Management, w.e.f 16-27 June, 2008 organised by Mechanical Engineering Department of this Institute.
- **O. P. Rahi** delivered an expert lecture on the topic “Energy Conservation and Its Importance” to the participants of TEQIP sponsored short term course on “Hands on Practice in Electrical and Electronics Equipment/Gadgets” organised by Electrical Engineering Department of this Institute, w.e.f. 09.06.08 to 13-06-08.
- **O. P. Rahi** delivered an expert lecture on the topic “Fundamentals of Electrical Science” to the participants of TEQIP sponsored short term course on “Hands on Practice in Electrical and Electronics Equipments/Gadgets” organised by Electrical Engineering Department of this Institute, w.e.f. 09.06.08 to 13-06-08.
- **P. Chand** delivered lectures on Stress Management, Student Counseling, Dynamics of Leadership, Managing People and Time during STC on orientation programme for faculty w.e.f.30-06-08 to 11-07-08 at NIT, Hamirpur.
- **R. Chandel** took expert lectures on SPICE- the circuit simulator, MOSFET fundamentals and Physical design of VLSI integrated circuits in AICTE Summer School on Application of MATLAB, OrCAD/ SPICE Simulation tools in Engineering MOS-2008, from 30th June to 11 July 2008.
- **R. Chandel** conducted a Workshop on ICT for Personality Development under 50th STC under Community Service Programme on 5th May, 2008.
- **R. Chandel** delivered a lecture in Workshop on “ICT for Personality Development in 50th STC under Community Service Programme on 5th May, 2008 at NIT Hamirpur (HP). 32 participants attended the workshop.
- **R. Chandel** delivered expert lectures on Role of SPICE in VLSI, CMOS VLSI Design issues, CMOS VLSI Design techniques, Physical design of VLSI circuits in DTV-08
- **R. N. Sharma** delivered an expert lecture on Availability Based Tariff on 27-06-2008 during STC on Sustainable Energy Generation and Environmental Management Organised at NIT Hamirpur.
- **R. N. Sharma** delivered an expert lecture on Energy Audit-I on 26-06-2008 during STC on Sustainable Energy Generation and Environmental Management Organised at NIT Hamirpur.
- **R. N. Sharma** delivered an expert lecture on History of Electricity on 11-06-2008 during one week STC on Hand on training on repair & maintenance of Electrical & Electronic Equipments under services to community organized by EED NIT Hamirpur.
- **R. N. Sharma** delivered an expert lecture on History of Electricity on 08-07-2008 during one week STC on Measuring Instruments and Electrical Appliances under services to community organized by EED NIT Hamirpur.
- **R. N. Sharma** delivered an expert lecture on Introduction to Optimization Toolbox & Environmental Dispatch using Genetic Algorithm on 01-07-2008 during STC on MATLAB, ORCAD/ SPICE Simulation tools in Engineering (MOS-2008) .
- **R. N. Sharma** delivered an expert lecture on Neuro-Fuzzy Systems on 20-06-2008 during STC on Signal Processing and Artificial Intelligence with applications in Biomedical Engineering organized by EED NIT Hamirpur
- **R. N. Sharma** delivered expert lectures on optimization for engineering applications in AICTE Summer School on Application of MATLAB, OrCAD/ SPICE Simulation tools in Engineering MOS-2008, from 30th June to 11 July 2008.
- **S. Chauhan** delivered expert lecture on “ Microprocessors and Microcontrollers and Embedded systems” at AICTE/ MHRD sponsored summer school “ Mechatronics and Robotics” on July 19, 2008.
- **S. S. Katoch** delivered lecture on the topic "Environment Concerns of Climate Change and Sustainable Energy" at NIT Hamirpur on June 05, 2008.
- **V. Kapoor** delivered a expert lecture on "Technology Management" at NIT Jalandhar on 25th April.2008 under Networking activities of TEQIP.
- **V. Shankar** delivered lectures on “Rainwater Harvesting” in Inter-disciplinary STC on “Sustainable Energy Generation and Environmental Management” at National Institute of Technology Hamirpur – 177005
- **V. Shankar** delivered lectures on “Water Harvesting through Community Participation” in STTP on “Water Supply and Sanitation Practices”(WSSP-08), July 22nd-26th, 2008 organised by Department of Civil Engineering, NIT Hamirpur.
- **V. Sharma**, delivered a lecture on “General Electrical Safety” during community development workshop on the topic “Hands on practice in repair and maintenance of electrical and electronics equipments/gadgets funded by TEQIP, held in EED, during June 9-13, 2008.
- **V. Sharma**, delivered a lecture on “Hydropower optimization using ANN” during short term course on “Sustainable energy generation and management” held in MED, during June 16-27, 2008. AICTE/MHRD sponsored course.
- **V. Sharma**, delivered a lecture on “signal and systems-I” during short term course on “Signal processing and artificial intelligence with applications in biomedical engineering” held in EED, during June 16-27, 2008.
- **V. Sharma**, delivered a lecture on “signal and systems-II” during short term course on “Signal processing and artificial intelligence with applications in biomedical engineering” held in EED, during June 16-27, 2008. AICTE/MHRD sponsored course.
- **Y. R. Sood** delivered expert lecture on “Efficient use of Electrical Appliances”, in short term course under Services to Community Programme of TEQIP on, “Hands on Practice in Repair and Maintenance of Electrical and Electronics Equipments/Gadgets” from 9th to 13th June 2008 at NIT Hamirpur.
- **Y. R. Sood** delivered expert lecture on “Evolutionary Programming and its application to OPF” during AICTE sponsored short term course on, “Signal Processing and Artificial Intelligence with applications in Biomedical Engineering” 16-27 June 2008 at NIT Hamirpur.
- **Y. R. Sood** delivered expert lecture on “Genetic Algorithms and Evolutionary Programming using MATLAB”, during AICTE sponsored short term course on, “Application of MATLAB, OrCAD/SPICE Simulation tools in Engineering (MOS-2008)” 30th June- 11th July, 2008 at NIT Hamirpur.
- **Y. R. Sood** delivered expert lecture on “Moving towards Deregulation” during Staff Development Program on “Operation and Control of Modern Power Systems (OCMPs), July 07 - 18, 2008 at MNIT Jaipur.
- **Y. R. Sood** delivered on GA & EP in AICTE Summer School on Application of MATLAB, OrCAD/ SPICE Simulation tools in Engineering MOS-2008, from 30th June to 11 July 2008.

Campus Close-up

- The academic area in the campus has changed its looks with the completion of the 2nd floor in Civil, Computer Science, Electrical and Mechanical Engineering Department. The construction of new computer centre has been completed and is now operational. The capacity of OAT has been increased by 350 seats.
- In order to cater to immediate expansion in intake of students using prefabricated structures the capacity of Shivalik boys hostel has been increased by 81.
- The work of extension of library, lecture theatre complex, garbage disposal plant and boys hostel is in progress in full swing.

IGNOU Program Center (NIT Hamirpur)

Indira Gandhi National Open University (IGNOU) has opened a Program Center at NIT Hamirpur in order to provide access to higher education for disadvantaged segments of society, working people, housewives and adults who wish to upgrade or acquire knowledge and skill. The center is being run from Department of Civil Engineering. It is offering B.Tech Degree, Diploma and Certificate courses / programs in Civil and Computer Science and Engineering. B.Tech degree program in Mechanical Engineering will start from January 2009 session. In view of excellent infrastructural and student support facilities available at NIT Hamirpur, many students, employed persons are seeking admission in these programs which have become very popular among them. The center is playing a key role in imparting quality education in distance education mode to this large segment of society in Himachal Pradesh. Many students who have successfully completed their courses from this center have been placed at very good positions in different organization.

Alumni Association



Alumni Meet at USA at California

Interaction with US chapter of Alumni was arranged at California on Friday 25th and 26th July 2008. Most of the Alumni were from software industry and showed interest to help the Institute in its brand building. Prof. L. K. Awasthi read out the director's message and conveyed his feelings and expectations to them. The president of the US Chapter of alumni association, Mr. Neeraj Ahuja and others welcomed the efforts of the Institute Director & faculty to bring the Institute to the present state. Our alumni are at senior positions in their respective organizations and would like to help institute in improving its brand image. The Annual Alumni meet of US chapter will be held during November 2008 and alumni were of the opinion that it will be highly appreciated if a delegation visits during that time to formalize ties with US universities.

Placements: 08-09

Placement till 31st August 2008

B. Tech.

S.No.	Discipline	Total students in final year	Total students placed through Placement Cell	Percentage of placement
1.	Elect.& Comm.Engg.	60	30	50
2.	Comp.Sc. & Engg.	42	16	38
3.	Electrical Engg.	52	35	67
4.	Mechanical Engg.	57	33	57
5.	Civil Engg.	45	13	29
6.	B.Arch.	22	00	--
Total		278	127	45

M. Tech.

S.No.	Discipline	Total students in final year	Total students placed through Placement Cell	Percentage of placement
1.	Mechanical Engg.	14	00	--
2.	Electrical Engg.	16	00	--
3.	E&CE (VLSI Design)	16	03	18
4.	CSE	16	02	12
Total		62	05	8

Recognition and Awards

- **Hemant Kumar Vinayak**, faculty in the Civil Engineering Department received the Ph.D. degree from Indian Institute of Technology Roorkee on "Damage Detection of Structures using Modal Parameters and Neural Network".
- **Rajesh Roshan Dash**, faculty in the Civil Engineering Department received the Ph.D. degree from Indian Institute of Technology Roorkee on "Simultaneous Adsorption and biodegradation of cyanides in industrial wastewater".
- **Prof. Sunand Kumar** Member International Programme Committee of 17th IASTED International Conference on Applied Simulation and Modeling (ASM 2008), June 23- 25, 2008 held at Corfu, GREECE.
- **Prof. L. K. Awasti** chaired session at International Conference WorldCom08 on "Grid services, scheduling and Resource Management + Related Issues" at International conference on Grid Computing and Applications as one of the 25 conference in WorldCom08 on 14/07/2008.
- **Prof. L. K. Awasti** chaired a session on "High-Performance Systems and design Issues+applications+ Tools/OS" at International conference CDES as one of the 25 conference in WorldCom08 on 15/07/2008.
- **Dr. Rajeevan Chandel** chaired a session in IEEE Symposium on VLSI Design and Test, VDAT-2008, Bangalore on 26 July 2008.
- Mr. Kumar Ashutosh, B.Tech. Final Year ECE students of this Institute awarded "Best Students Award" for the year 2006-2007.
- Er. Pradeep Kumar Subudhi and Er. Manabesh Ray graduates of E&CED 2008 who worked under the guidance of Dr. (Mrs.) Rajeevan Chandel Assist. Prof. & Head E&CED for their Projects, qualified regional round of prestigious AETA-2008 Awards. They won cash prize in the final round at IIT Delhi.
- Mr. Sarvendra Kumar, and Mr. Ramakant Agrawal of the Computer Science and Engineering Department, NIT Hamirpur attended "Summer Workshop on Computer Graphics and Vision" at IIT, Delhi from June 1st - 15th July 2008. They have worked on a project titled "Modelling of Billiards Game". This work was judged as the joint best project.

New M. Tech. Programmes offered at NIT Hamirpur

- M. Tech Programme on **CAD and CAM** offered by the Mechanical Engineering Department from this session
- M. Tech Programme on **Signal Process and Control** offered by the Electrical and Electronics Engineering Department from this session

Forthcoming Programmes

- STC on "Electronics & Communication system Usage" w.e.f. 20th -24th October, 2008.
- STC on Mechatronics, Coordinators: Dr. S.K.Pradhan, Dr. R. Sharma and Sh. A. Patnaik
- STC on Condition Monitoring of Machines Coordinators: Dr. R. Sharma, Dr. S.K.Pradhan and Sh. A. Patnaik
- National Conference on Mechanism Science and Technology from Theory and Application, Coordinators: Dr. S.K.Pradhan, Dr. R. Sharma and Sh. A. Patnaik NIT, Hamirpur, 13th to 14th November, 2008
- National Conference on Advance in Product Design & Development, Coordinators: Prof. A.D. Bhatt and Sh. Sidharth.
- STC on creative teaching of structural analysis, Coordinators: Dr. P. Kumar, Dr. V. S. Dogra
- STC on Earthquake risk management, Coordinators: Dr. P. Kumar, Dr. V. S. Dogra
- STC on Urban water management, Coordinators: Dr. P. Kumar, Dr. V. S. Dogra,
- Two parallel 12th and 13th "Healing Breath Workshops" (The Art of Living Course Part - I) are going to be organized from 23 to 28 September 2008. Dr. Sunil will be the Coordinator of this Workshop.
- The 1st "Health and Happiness Yoga Workshop" (The Art of Living Yoga course) is going to be organized from 24 to 28 September, 2008. Dr. Sunil will be the Coordinator of the Workshop.

Editor's Pen

This issue of the newsletter in your hands showcase the achievements of students, staff and faculty of NIT Hamirpur. We thank all the Deans, Heads, Coordinators, Faculty, Non-teaching staffs and students who have been associated with the Institute NEWSLETTER in past and all those who are associated with it in present for their efforts in bringing out the Newsletter in the best possible manner.

Good wishes to all NITHians past, present and regards to all readers,

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