



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

From a modest beginning in 1986, National Institute of Technology, Hamirpur (NIT/H) has now grown into a fully integrated Institute of Engineering and Technology. Today it is one of the thirteen institutes of National Importance and is known for many accomplishments. It is an "education with future". Learning how to inquire, converse and collaborate, the skill that never go out of date. The objectives of imparting education, combined with creation, dissemination and application of knowledge are being met in an integrated form to create a synergetic impact. To fulfill its mission in new and powerful ways, faculty, staff and student of NIT Hamirpur strives to achieve excellence in every endeavour - be it education, research, consulting or training-by making continuous improvements in curricula and pedagogical tools.



Prof. R.L.Sharma
Director

Research activities are undertaken for strengthening the knowledge base, relevant to engineering practices for the corporate as well as non-corporate sector. Consultancy services are provided to different organizations spread across different sectors of economy. Special "Centers of Excellence" in area of energy - "Center for Energy & Environment", "Center for Material Science and Engineering" have been established to undertake pioneering work in the respective areas.

As we are marching ahead, our theme is now to educate the leaders of the next generation. Today, the institute enjoys a status of "Institution of Excellence" with liberal grant from the government of India with student's strength increasing ten-fold. Our students not only excel in the class-they push beyond their comfort zones (studying overseas, doing research); thus receiving national and international fame. Our alums include Rajnish Chauhan, Research Head Infosys, Chandigarh; Mallik Arjuna Rao, Lead Engineer, Texas Instruments, Bangalore; Ramana Kumari founder of Avake Technologies, Rajesh Sharma, Head T-Mobiles, California; Nidhi Verma, Head Max Mobiles; Neeraj Ahuja, Director sales, Blue Star Info Tech, USA and Dr. Y.N. Singh, Professor, IIT Kanpur.

This issue of Institute "Newsletter" brings forth a spectrum of multifarious activities, the institution undertook during the last couple of months. We look forward to working with you, whether Industry, alumni, or prospective employer. Please make use of the many resources and features of our website www.nitham.ac.in and return frequently to see the new program offerings, capabilities, and updates that we promise to make on an on-going basis.

I take this opportunity to congratulate the team of Editors headed by Dr. Rajiv Kumar Sharma for their untiring effort in collecting and compiling the information without which it would have not been possible to place this newsletter in your hands and appraising all about various initiatives and activities under taken by the institution.

Prof. R. L. Sharma
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Academics

CONFERENCES, SHORT TERM COURSES, WORKSHOPS AND TRAINING PROGRAMS



Inauguration of 55th Congress of The Indian Society of Theoretical and Applied Mechanics ISTAM-2010 by Hon'ble CM Prof Prem Kumar Dhumal , HP



Release of ISTAM-2010 Proceedings of ISTAM by dignitaries on Dias



Lighting of Lamp at inauguration of STTP on "Condition Monitoring of in service Power Transformers

- The Department of Mathematics, National Institute of Technology, Hamirpur successfully organized the 55th congress of The Indian Society of Theoretical and Applied Mechanics, ISTAM-2010 (An International Meet) from December 18-21, 2010 as a part of Silver Jubilee celebrations of NIT Hamirpur. Hon'ble Chief Minister of Himachal Pradesh, Prof. Prem Kumar Dhumal was the Chief Guest and Prof. T. J. Pedley, President International Union of Theoretical and Applied Mechanics (IUTAM), former G I Taylor Chair's Professor, Cambridge University, U. K. was the Guest of Honor on the inaugural ceremony of this Congress. Many eminent academicians, engineers and scientists from different parts of the country and abroad visited NIT Hamirpur during this meet. The main attractions of this meet were the G I Taylor memorial, Bhatnagar memorial, Karunesh memorial and B R Seth memorial lectures. These were delivered by Prof. T J Pedley (UK), Prof. Gautama Biswas (India), Prof. Pradeep Sharma (USA) and Prof. Osamu Sano (Japan) respectively. Also ten invited expert talks were delivered by eminent academicians from India and abroad on the topic of their respective field. More than 200 delegates from India and abroad participated in the proceedings and 130 technical/research papers were presented in the Congress. 35 papers were also published in the Congress proceedings based on the opinion of expert reviewers. A souvenir containing Messages, Memorial and Invited Lectures, abstracts of contributed papers, advertisement of sponsors and other salient features of the Congress and society has been also brought out. Chairman Prof. J.N Sharma, Co-Chairman, Dr.Y.D Sharma and Organising Seceretary-Dr Pawan .

- National Workshop on Hydropower development in Himalayan Region (Hydro-2010) was conducted by Department of Electrical Engineering of NIT Hamirpur HP on 6-7 December 2010. The workshop was inaugurated by Sh. H.K. Sharma, CMD cum Chairman SJVN Ltd. The workshop was attended by over eighty delegates from SJVN, NTPC, HPPCL and academic institutes. Er. P.K. Kohli, GM, HPPCL was the chief guest of the closing ceremony. A Himachali cultural evening was also organized for the delegates on the first day. Prof. R.L. Sharma, Director NIT Hamirpur was the Chief Guest of the evening. Sh. O.P. Rahi and Dr. Ashwani Kumar Chandel, EED NIT Hamirpur were the coordinators of the National Workshop Hydro-2010.

- A Short Term Training Program titled "Condition Monitoring of in service Power Transformers" was inaugurated by Prof. R.L. Sharma, Director NIT Hamirpur on 13 Dec. 2010. About 35 participants including officials of HPSEB Ltd. participated in this training program. The various aspects of Power Transformer Diagnostics like testing of transformer oil bushing, winding insulation, SFRA, turn ratio, leakage reactance etc. were covered in this program. In addition to theoretical concepts, the participants were exposed to hands on practical training on various state of art equipments procured in TIFAC-CORE NIT Hamirpur in organizing this Training Program. They were given live demonstration on various equipments at HPSEB Substation Anu, Distt. Hamirpur. Course Coordinator: Dr. Sushil Chauhan, Dr. R.N. Sharma, Dr. Veena SharmaCo-coordinators: Ms Bharti Bakashi and Sh. Rajesh Kumar.

- Training programme on Mentor EDA Tools, was organized from 28th to 29th Jan 2010, under SMDP-II project for faculty, students and project staff in E&CE Department. Er. Abhishek Agrahari, Application Engineer, Corel Technologies Pvt Ltd, Noida, was the resource person. Expert lectures and lab sessions on Mentor Design flow, Backend flow and Physical design in VLSI were conducted. Dr. Rajeevan Chandel, was the Coordinator of the workshop. Forty-six participants benefited from the programme.

- A one day workshop on Women's Empowerment & Awareness about Rights of Women at workplace. Experts on this topic of high value in the society discussed the importance of women's empowerment and of the ethical values of equality and righteousness. The workshop was held on 8th March 2011.

- A one day workshop on the Right to Information Act - 2005 was held to inculcate the importance and utilization aptitude of this act among the NITH staff and students. The importance of this much lauded fundamental right has been discussed. The workshop was held on 26th February 2011. In esteemed collaboration with IBM, CSE department has organized a 4 day workshop on the IBM Lotus Domino Technologies between 17th-20th Feb, 2011.

One Day Workshop on RIGHT TO INFORMATION ACT-2005



Workshop on Right to Information Act - 2005

Publications

Campus Highlights



STAR News Agency Award Ceremony



Republic Day Celebrations



Foundation stone of Extension of Health Centre



PAC meeting of DST

INTERNATIONAL/NATIONAL JOURNALS

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- Prashant Kumar Tiwari, Yog Raj Sood, "Flexible Alternating Current Transmission Systems (FACTS) An Indian Scenario", published in Electrical India, Vol 50, No 9, September 2010, pp 36-42.
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Community Programmes

Rashtriya Madhyamik Shiksha Abhiyan (RMSA) funded Teacher training programmes for HP Govt secondary school teachers has been conducted in the subject of Mathematics and Sciences by Department of Mathematics and Physics. Coordinators Dr Arvind, Dr Rajesh, Er Vinod and Dr Pawan.



Expert Lectures

- Mr William (Bill) Fernihough, Consultant with DOBLE USA delivered series of expert lectures on “Condition Assessment of Power Apparatus with Insulation Analyzer” on 19-06-2009
- Professor O.P. Sharma, Centre for Atmospheric Sciences, IIT Delhi, delivered an expert lecture on “Modelling Aerosol Distributions in Atmospheric Flows” to research Scholars and Faculty on dated 21-01-2011, organized by Department of Mathematics, NIT Hamirpur.
- Dr. Jitendra Kumar, Professor Materials Science Programme, IIT Kanpur delivered an expert lecture on Application of X-Ray diffraction in Materials Characterization on 21-01-2011. Organized by Department of Physics.
- An expert lecture on Interactive Robots has been conducted by NITH where Dr. Nikolaos Mavridis has shared his esteemed knowledge with students. He is a professor and head of robotics research at UAEU.

Placements

2011 (Till January 2011)

| Sr. No. | Discipline | No. of students in final year | | Total No. of students placed through Placement Cell | Percentage of placement |
|---------|----------------------|-------------------------------|-----|---|-------------------------|
| | | | | | |
| 1. | Elect. & Comm. Engg. | 59 | 57 | 56+61* | 98.24 |
| 2. | Comp.Sc. & Engg. | 62 | 60 | 58+90* | 96.66 |
| 3. | Electricla Engg. | 59 | 53 | 49+16* | 92.45 |
| 4. | Mechanical Engg. | 56 | 53 | 50+7* | 94.33 |
| 5. | Civil Engg. | 41 | 34 | 24 | 70.58 |
| | Total | 277 | 257 | 237 174* | 92.21 |
| | MBA | 30 | 30 | 9 | 33.33 |

*students with dream job option.

Out of Class

NIMBUS 2011

NIMBUS, the annual tech fest of National Institute of Technology, Hamirpur was organized from 3rd to 6th March, 2011. NIMBUS 2011, just like its previous editions offered a platform to enhance the technical dexterities and nurture managerial proficiency. It proved to be 4 days of undiluted technocracy. A perfect blend of workshops, competitions, hands on session, soft skill events, online events, LAN gaming and expert lectures; NIMBUS 2011 was a unification of technology with creativity.

The theme for the fest was ALCHEMY: Resurrecting Detritus with the basic concept of waste management. Also, along with the waste management, it focused on two special genres of Rural India development and Da Vinci Machines. Rural India development was an interpretation of an engineer's perspective to make a useful material from the scrap. Leonardo Da Vinci penned down in his writings about the perpetual machines and hence the latter demonstrated models working on similar lines.

NIMBUS 2011 witnessed an overwhelming participation from not only 3000 students across the nation but also the well renowned dignitaries from the industries and academia. It was privileged to be a host to Dr. Nikolaos Mavridis, father of face bots, Ass. Professor of Intelligent Systems, UAEU, Dr. Suryaprakash Kompalli, Senior Research Scientist at HP Labs, Dr. Vishwanath Poosala, Head, Bell Labs India, Mr. Iqbal Ahmed, Guinness World Record Holder in Miniature Engineering, Mr. Manish Gupta, Head IBM India, Dr. Devdas Menon, Prof & Head, Structural Engineering, IIT Madras, Mr. Akash Gautam, Leading Trainer, Motivator and Management Speaker, Mr. Prashant Reddy from NCDEX India in person and Dr. Peter Norvig, Director Google Inc through video conference.

The intellect and technical aptitude of the participants were brilliantly put to test by the six event teams, through many events and competitions: the real thunderstorm (Corona discharge), Replica Da vinci, Vertigo, Line tillhenger, Contriware, Fireflies, Armageddon, Transfigurator, Circuitus, The Call, Bhram (an online quiz), PO Box 2035, Webcraft, Impedance, Robotica, Metal Mines, Magnetobot to name a few.

NIMBUS 2011 also helped students develop their soft skills by the events like Papyrus and turn the quote. The business quotient was thoroughly trialled by a series of events, Face B Avalanche, Visual Life and Q positive under the name of Business Summit by ISTE. For the fun lovers and adventure freaks, Dimensions presented a mega Sudoku championship and Anweshnam: The hunt begins. The speed lovers' delight knew no bounds when they got to hit the road with Spark, Beat and Bullet during the three days of the fest.

Since its inaugural version, NIMBUS has evolved to humongous and non pariel dimensions and NIMBUS 2011 was yet another milestone celebrating the spirits of the students of NIT Hamirpur.



Sports Activities



During the session Inter-Branch and Inter- Year tournaments for various games like Football, Cricket, Basketball, Volleyball, Lawn Tennis, Badminton, Table Tennis, Carrom and Chess are organized every year and all students take part in these tournaments with Great Spirit. During the year 2010 in Inter-Branches Matches, Computer Science & Engineering Department got over all Championship. They got 1st place in Football and Badminton 2nd place in Volleyball, T.T and carrom. In Girls Inter Branch tournament, Electrical Engg. Department got First place in Basketball, Badminton and TT, 2nd place in Cricket and T.T . They declared as over all champion. Whereas civil Engg. Deptt. got overall second place. In Inter-Year tournaments, Final year got 1st place in Basketball, Cricket and Lawn Tennis. Third year students got 1st place in T.T and 2nd place in Cricket, Basketball and Volleyball. Second year students got 1st place in Volleyball and 2nd place in lawn Tennis. Over all Champion Final year got 15 points for the year 2010-11.



In women section Second year students got 1st place in Volleyball, Badminton, T.T. and they emerged as overall Champion for the year 2010-11. Third year girls students got 1st place in Chess , 2nd place in Volleyball, T.T. and Carrom and they got overall 11nd place for the year 2010-11 .

During the session 2010-11 two days Annual Athletic Meet was organized. In this Athletic Meet the following events were organized such as 100 m, 200m, 400m,800m,1500m 5000m, 4x100m relay, 4x400m relay, Long Jump, High Jump, Triple Jump, Shot Put, Discuss throw and Javelin Throw for both Boys and Girls.

One more session comes 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 of variety of events. The sports man of Institute this time proved that sports are an integral part of any Institute and very important for an all round development of every individual. Besides this our teams have also participated in the tournaments held in other Institutions also. During the session our Institute football and cricket teams participated in all India inter NIT sports fest-11 at VNIT Nagpur. All over India about ten NIT were participated in this tournament. Our Football team performed very well in this tournament and got 1st place.



Our Institute Basketball, Badminton, Volleyball teams (Boys and Girls) performed very well in MNIT Sports Tournament 2011 at Jaipur held from 18-20 February 2011. Our Institute Basketball (Boys & Girls) and Volleyball teams performed very well in this tournament and we reached upto semi final. Our Badminton team got 2nd place in this tournament. The teams from NITs , IITs and others Technical Universities about 20 Institutes were participated in this Mega Event.

Our Institute also participated in sports festival at IIT Roorkee held from 25-27 Feb. 2011 in Athletics and lawn Tennis. In Athletic our students have done very well in this sports festival and won Gold medal in 110 Mtrs hurdles, High Jump and Javelin Throw. Silver Madel in Triple Jump, 4X100 mtrs Relay and 400 Mtrs race and Browns Medal in Long Jump. And got overall second place.



Achievements

- NITH is celebrating 25 years of its existence with its Silver Jubilee session 2010-2011.
- NIT Hamirpur has been selected as Best Govt Engg. College by Star News - media agency.
- NIT-H successfully organised 55th ISTAM congress (An International meet) from Dec 18-21, 2010.
- Dr Subhash chand Chaired a Technical Session in 55th Congress of Indian Society of Theoretical and Applied Mechanics held during December 18-20, 2010.
- Amar Patnaik, Sachin Tejyan and Amit Rawal received Excellent Paper Award Presentation of Research Journal of Textile and Apparel, Hong Kong Polytechnic University, Hong Kong, 25th February, 2010 for Solid Particle Erosion Behavior of Needle punched Nonwoven Reinforced Composites, Vol. 14, No. 3, 2010.
- Dr.(Mrs.) Kamlesh Dutta appointed as a Member International Board of Reviewers of International Journal of Information Technology Education, published by the Informing Science Institute, 131 Brookhill Court, Santa Rosa, California 95409 USA.
- Dr.(Mrs.) Kamlesh Dutta, appointed Expert member of BOS for BTech in Information Technology, HP University
- Dr. Amar Patnaik organized Programme Advisory Committee (PAC) Review meeting (Department of Science & Technology, Govt. of INDIA) of Mechanical Engineering, Robotics & Civil Engineering at NIT Hamirpur on 3rd-4th December, 2010
- Dr. Rajeevan Chandel is member Technical Program Committee/ Reviewers of 3rd Int. Conference on Emerging Trends in Engineering and Technology ICETET-2010, Goa, India held on 19-21 Nov 2010.
- Prof Y.R sood elevated to the grade of Senior Member of the IEEE. Senior Member. Approximately 8% of IEEE 388,000 members have achieved this grade
- Prof Y.R Sood appointed as Member Editorial Board, of International Journal on Electronic & Electrical Engineering (IJEET), ISSN 0974-2042, IEEE Indian Council and reviewer of various technical journals
- Prof Y.R Sood Appointed as expert for evaluation of project proposals by Council of Scientific and Industrial Research (CSIR).

In other news, NITH saw the inauguration of Indian Coffee House where delicious coffee and South Indian food can be had at reasonable prices. The Newly built Science Block has also been inaugurated. Further, extension of Health Center is under way.

Forthcoming Programs

- International Conference on Advances in Computing and Communication April 08-10, 2011
- Alumni Meet August 13-14, 2011

For details please visit www.nith.ac.in

From Chief Editors desk

On the behalf of Editorial team I 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 current issue of Newsletter in the best possible manner. Good wishes to all NITHians past, present and regards to all readers.

Suggestions for improving the quality of Newsletter if any, are gracefully invited from the readers

Dr. Rajiv Kumar Sharma

Chief Editor – Institute Newsletter, NIT Hamirpur-177005



Academic programs at NIT-H

| Department | Courses Offered |
|---|--|
| Computer Science and Engineering | B.Tech in Computer Science and Engineering M.Tech in Mobile Computing, VLSI and Computer Science & Engg PhD in Computer Science and Engineering |
| Civil Engineering | B. Tech. in Civil Engineering M.Tech. in Water Resources, Geotechnical & Underground Structures Ph.D. Programs in Structural Transportation Geotechnical Environmental Engineering |
| Material Science Center | M.Tech Programs |
| Physics | M.Tech Programs in Applied Physics and Integrated M.Sc Program |
| Chemistry | PhD Programs |
| Mathematics | Integrated M.Sc. Programs and PhD Programs |
| Mechanical Engineering | B.Tech . in Mechanical Engineering M. Tech. in Thermal Engg (CFD) & CAD/CAM PhD in Design, Thermal, Production/Industrial |
| Electronics & Communication Engineering | B.Tech. in Electronics & Communication Engineering. M.Tech. in VLSI Design Automation & Techniques. Ph.D. in VLSI Design, Optical Fiber Communication and Electronics & Communication Engineering. |
| Electrical and Electronics Engineering | B.Tech in Electrical Engineering M.Tech in Advance Power System PhD in Electrical Engineering |
| Energy and Environment | M.Tech in Energy PhD |
| Architecture | B.Arch |

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