

Message from the Director

Welcome back from a gruelling and hot summer. I am very happy that all the students, faculty and staff have started the semester on an enthusiastic note.



We are extremely happy that our earlier vice-Chancellor, Prof Damodhar Acharya has now taken charge as the Chairman, All India Council for Technical Education (AICTE). This is the first time a person who earned his spurs in Orissa has been put in charge of a premier body such as AICTE. We congratulate Prof Acharya and hope that technical education in the country grows by leaps and bounds during his tenure. The major issues before him are the issues of faculty development, quality improvement, standarization of syllabus and grading system, building academic rigour, accreditation, entry of foreign universities, transparency in operations, etc. Engineers are the backbone of India and their development is a national imperative.

We welcome all new students who have joined our Institute under Lateral Entry (Engg), MCA, M.Tech and Bachelor of Technology. While thanking the new students for selecting NIST for building their future career, it is a matter of immense pride for us that the top rankers of Orissa JEE have chosen to join our Institute. Welcome you all to the NIST family.

Also on a welcome note: A large number of faculty members of all disciplines have joined our Institute after the summer break. We are proud of you and hope you have an eventful and highly satisfying tenure at NIST.

July 15, 2005

Sangram Mudali

Message from the Editor

When the students come to their teachers and ask for contact addresses, email-ids, phone number, autographs, etc., then we realize that it's time to bid adieu to our final year students. This year is unique since the first batch of post-graduate students is graduating. The first batch of M.Tech and MCA students are passing out this year. This first batch of M.Tech, is also the first batch of Biju Patnaik University of Technology. This year 20 students are going to complete M.Tech in Electronics and Communication Engineering under Biju Patnaik University of Technology, among which 14 are from NIST only. We are proud of them. GOOD LUCK to all of you!

We welcome all the faculty members who have recently joined us after completing their degrees from different renowned institutes of India and who have excellent research background in different areas of engineering and technology. I urge all of you to share your ideas, achievements, etc., with all NIST students, their parents, NIST staff, faculty, Alumni and many renowned personalities of India and abroad through NISTe_News. Wish you all a grand success at NIST.

July 15, 2005

Partha S Mallick

Our Student Representatives

Preeta Mohanty, Rohan Gupta, Preeta Mohanty, Arun Reddy, Smruti Sagarika,
Amit Kumar Dash.

Message from the Placement Director

Placement is a very important aspect for any Institute in the field of technical education. It



makes me feel proud to acknowledge that Orissa has finally been recognized as a hub for technical manpower by the top IT companies. Four to five years back, companies were not aware of Orissa's technical manpower. Now no company can afford to miss out the state of Orissa. However, there is scope for tremendous improvement in the quality of the students in their communication skills, analytical skills and general awareness skills. Other things required are attitude and knowledge.

NIST, in spite of being a private college, has been a pioneer in all the placement activities in Orissa. The first campus recruitment was held in September 1999 with the visit of Satyam Computer Services Ltd., Hyderabad, within three years of NIST's inception. Since then there has been no looking back for NIST. Some of the top companies visiting NIST campus every year are Infosys, TCS, Wipro, Satyam, MBT, I-Gate, L& T Infotech, Caritor, Birlasoft, IBM, Jatayu Software, Hexaware, I-Flex, Accenture etc.

We have a dedicated and strong team in our Placement Department. The team has been taking many steps towards the development of students' in the area of pre-placement training and development. New scientific methods were devised for the Pre-Placement Training of the students for a successful campus selection. There is a continuous effort in this area to find new methods to cope up with the changing industrial demands. NIST has signed an MOU with Infosys Technologies for Campus Connect Program which is a new initiative to develop rapport with industry. With India and China emerging as the global leaders in the field of software, there will be a huge demand for engineers in the coming years.

July 15, 2005

Geetika Mudali

Letters to the Editor

Date: 7 Jul 2005 14:51:52 -0000

From: m mahesh kumar" <lucky_mahesh@rediffmail.com>

To: niste_news@yahoo.com

Subject: Thankful

Dear Sir, I am Mahesh Kumar, of 5th Semesters want to express my gratitude towards NIST for helping me towards success of Oracle Certified Associate. With the help of notes & question papers provided by NIST I could pass the Data Base Fundamentals -1 paper with a score of 100% i.e. 60 out of 60. It's just like a dream come true. This couldn't be true without the constant encouragement of our fellow teachers and my dearest friends. Thanks. **Mahesh.**

Another book by NIST Faculty



Our Mathematics faculty **Dr Purna Chandra Biswal** has written a book titled DISCRETE MATHEMATICS AND GRAPH THEORY. The book was recently **published by Prentice Hall of India (PHI)**. The book was well appreciated by many renowned Academicians and Scientists. Dr Biswal is a Professor of Mathematics at NIST. He has also worked at BITS Pilani for three years. His research interests includes Graph Theory and Algorithms.

They joined NIST with a dream, now it has become true.....

M.Tech: 100% Placement of the first batch



Manmath Ray
(Jatayu Software B'lore)



Prabir K Samanta
(TCS, Kolkata)



Debabrata Purohit
(Adya Systems New Delhi)



Trilochan Panigrahi
(NIST)



Santosh K Patnaik
(NIST)



Samikhya Dash
Ph.D Scholar
(IIT, KGP)



Meryieen Biswajit Parija
Mohapatra(NIST)



Snehaprava Sanjeev Acharya
(CEB BBSR)



Priyabrata
(Nanotix, B'lore)



Mishra(SIT)
BBSR



Patnaik(SIT)
BBSR

Placement of the Last Month
(June 15, 2005 – July 15, 2005)

Batch: 2002 – 2006(B.Tech)

Name of the student	Name of the Company
1. Sunit Suman Rout	I-Gate
2. J Vivek Kumar	I-Gate
3. Subrato Biswas	L & T Infotech
4. Kshitish Mishra	L & T Infotech
5. P Satish Kumar	I-Flex
6. Vijay K Aberrala	I-Flex
7. Kamal K Biswasroy	I-Flex
8. Manmatha Giri	J-K Paper Mill

Batch: 2001- 2005(B.Tech)

Name of the student	Name of the Company
1. Suchismita Pradhan	ATOS Origin
2. Amit Behera	ATOS Origin
3. Rakesh Khatai	ATOS Origin
4. Sambit K Pattnaik	ATOS Origin
5. Akshya Rout	ATOS Origin
6. Meena Panda	ATOS Origin
7. Sonali Mohanty	ATOS Origin
8. Sigma Dash	ATOS Origin

News Corner

M.Tech Toppers

The 2003 batch M.Tech student shown excellent results in both 1st semesters. The top five students are:



Name of the students	CGPA
1. Manmath Ray	8.79
2. Samikhya Dash	8.38
3. Debabrata Purohit	8.27
4. Meryleen Mohapatra	8.10
5. Prabir Kumar Samanta	7.63

Toppers of 6th and 4th Semesters

Here is the list of top 10 students in the recently published 6th and 4th semester results. We congratulate all of them.

Rank	6 th Semester	(Out of 700)
1	SOUBHAGYA MISHRA	609
2	SUPREETI MITRA	608
3	K. SNEHA SMITA	607
4	SUCHISMITA PRADHAN	596
5	AMRITA DASH	589
6	SURESH C MARTHA	587
6	PRIYANKA MISHRA	587
7	SALINI PATNAIK	586
8	KABITA PADMALEENA	585
9	TAPASWINI MISHRA	583
10	AMIT KU MAHAPATRA	582
10	PRIYADARSHINI PANDA	582

Rank	4 th Semester	(Out of 700)
1	ALOK KUMAR PRUSTY	611
2	TANMAY RANJAN KAR	605
3	MADHU LAKSHMI BOYINA	602
4	SWETA GUDISA	599
5	K. SOMESWAR RAO	596
6	LIPSA NAIK	594
6	RANJEETA MISHRA	594
7	ANUKA BINDHANI	587
8	SHANT SWAROOP SAMAL	582
9	D. GANGADHAR	579
10	ABHAY LAL	578

URSI Young Scientist Award



The Union Radio-Scientific International (URSI), Belgium has selected NIST faculty **Dr Amalendu Patnaik** and **Mr Rowdra Ghatak** for the YOUNG

SCIENTIST AWARD – 2005. They will be receiving the Award from our Honourable and beloved President Prof A P J Abdul Kalam on October 27, 2005 at Rastrapati Bhavan, New Delhi. CONGRATULATIONS!

Invited talk by NIST Faculty

NIST faculty **Dr Partha S Mallick** has presented an invited talk at the Department of Electronics and Telecomm Engineering, Jadavpur University, Kolkata on May 21, 2005. The talk was a part of the IEEE lecture series



organised by IEEE Calcutta Section and IEEE Electron Device Society, Calcutta. The title of the topic was *Blue Lasers – Some Key Technologies*.

Summer School at Berhampur – NIST has shown the way

NIST has shown the way again! This year NIST has introduced Summer School at Berhampur under the able leadership of Placement Director **Ms. Geetika Mudali**. The summer school was for children of ages 4-15. It was inaugurated by the Superintendent of Police, Berhampur, Mr Suresh Kr Palsanya, our Placement Director Geetika Mudali and GM Sambad Mr Prasad Rao on May 6, 2005. This program was made successful under the dynamic leadership of **Mr K Premeswar Rao** of NIST. Different activities were included under this program such as computer skills, drawing, modern dance, classical music, indoor games and robot building skills, etc. The training continued from May 6 – June 5, 2005. More than 50 students from different schools of Berhampur participated and enjoyed the whole training program.

NIST faculty at AICTE sponsored program

- NIST Faculty and Course Coordinator of B.Tech **Dr Arun Kr Padhy** attended the AICTE sponsored QIP program held at IIT, Guwahati from June 20-22, 2005. The topic of the course was “*Semiconducting Organics as future generation electro-optical materials*”.
- NIST Faculty and Batch Coordinator of Final Year **Mr G V Kiran Kumar Padhy** attended the AICTE sponsored QIP program held at IIT, Guwahati from May 23-27, 2005. The topic of the course was “*Signal Processing applications in Communication Engineering*”.

NIST faculty attended the Xilinx Program

NIST faculty **Dr Ajit K Panda** and **Mr. M Suresh** attended the Xilinx University Program(XUP) held at Calcutta University from June 21-24, 2005. Around 50 participants from all over India attended the program.

NISTians Achievement

Many NIST faculty members and students have cleared their Sun Certification in Java and Oracle Certification in the last two months. **Mr Saroj Kr Choudhury** (Faculty - Sun Certification), **Mr Himanshu Sahu** (Faculty - Sun Certification), **Mr Manmath Roy** (M.Tech student - Sun Certification), **M. Mahesh Kumar** (5th semester - Oracle Certification), **Debahuti Mohanty**(5th Semester- Sun Certification), **Sonali Mishra** (5th Semester- Sun Certification), **Biswajit Mishra** (5th Semester- Sun Certification), **Ashwini Kr Patro** (5th Semester- Sun Certification) and **Ashutosh Panigrahi** (5th Semester- Sun Certification). We congratulate all of you for your success.

Ed: Any other students having completed their Certification programs may kindly let us know.

Summer Workshop on Robotics for School Children

In keeping up with our urge for technical innovation and spreading technical knowledge at the grass roots level, the NIST Robotics Club conducted a 12 days Summer Workshop on Robotics exclusively for school children of standard 8th to 12th from 2nd May to 14th May, 2005 under the supervision of our faculty **Ms. Suchilipi Nepak**. The NIST student volunteers guided the School students all through this



workshop. Fifty two school children were the participants from different Schools of Berhampur - DAV Public School, De-Paul School, KC Public school, City High School, MKCG Campus High School, MAV School, Govt. Girls High School, Viswanath High and Technical School, Balaji Vidyapitha Konisi School, Saraswati Sishu Mandir, Aurobindo Integral Education Center.

The entire workshop was divided into five sessions as follows – LEGO kit training session, Robot from JUNK session, Build Your Own Robot using LEGO kit session, Build Your Own Robot using ELECTRONIC components session, Robot Design Using 6-axis Robot and Vision Command System. A group of five students were asked to select a theme and design and program the robot to depict the particular theme. The themes selected were Indian Village Life Project, Road Construction Project, Art Robot, Football Match, Indian Flag Setting, Electronic Project, Boat Racing. The models made by the children were eye-catching.

The workshop concluded by distribution of prizes by our Dean Dr. Ajit Panda to the best meritorious students as judged by our mentors. G. Murli Krishna Reddy of Saraswati Vidya Mandir got the First Prize, Nihar Panigrahi of De Paul School got the Second Prize and K. Avinash of D.A.V Public School got the Third Prize.

A Dream comes true!

NISTians congratulate **Sri Sudhir Doki** of CSE, 2001 batch, who scored 1300 out of 1600 in the GRE test result published in May 2005. We wish you all success.

NIST Student leaves for Japan

Mr. Rakesh Kumar Jammula of 4th Semester left for Japan on April 4, 2005. He has received *Monbukagakusho Scholarship-2005*. He will be getting 1,35,000 yen per month for the three years degree in Computer Science and Information Engineering from Toyota National College of Technology, Japan.

NIST Welcomes U....

Mr Satyabrata Das has joined us in June 2005 in the department of Electronics and Instrumentation Engg. Mr Satyabrata is a BE from REC, Rourkela and M.Tech from MNNIT, Allahabad in Digital Systems. He has industrial experience of 8 years at *Hindustan Paper Corporation, Panchgram* as a Plant engineer. He has also teaching experience of 4 years at JITM, Parlakhemundi. His area of interest includes Statistical and Adaptive Signal Processing and Biomedical Signal Processing.

Ms Meryleen Mohapatra has re-joined us in June 2005. Ms Meryleen belonged to the first batch of NIST and first batch of M.Tech at NIST. After completing BE she joined NIST as a Faculty and again after completing M.Tech program of Biju Patnaik University of Technology at NIST in the year 2005, she has joined us as faculty. She



has working experience in Mentor Graphics, Tanner Tools, etc. Her areas of interest include VLSI design and Advanced Communication Systems.

Mr Trilochan Panigrahi has joined us in June 2005 in the department of Electronics



and Communication Engg after completion of his M.Tech at NIST with flying colors. He has one year research experience at CEERI, Pilani in the area of Microwave Tubes. His research interest includes Advanced Communication Technology and Microwave Engineering.

Mr Santosh Kumar Patnaik has joined us in June 2005 in the department of



Electronics and Communication Engg after completion of his M.Tech at NIST with flying colors. He has one year research experience at CEERI, Pilani in the area of Analog VLSI Design. His area of interest includes VLSI Design, Semiconductor Devices.

We welcome **Mr Dinesh V Meshram** who joined us in June 2005, in Electronics and Communication Engg. After completing BE from Nagpur University Mr Dinesh did his M.Tech from NIT, Warangal. Then he worked for 1.5 years at Bhabha Atomic



Research Center, Mumbai, in a FPGA based project on Ultra Fast Multi Channel Scalar by using VHDL Design Manager and Web Pack. He has also done a live project on

Strain gauge load measurement at NIT, Warangal.

Mr Manabhanjan Sahoo joined us in June 2005. He is an BE from UCE, Burla and an M.Tech from NIT, Rourkela in Mechanical Engineering. He worked on the Development and Evaluation of Tribological Behaviour of Epoxy-Red Mud Composite. He has presented papers at PLASMA-2004, Jhansi and at 49th Congress of Indian Society of Theoretical and Applied Mechanics, Jhansi.



Mr Diptendu Roy joined us in June 2005, in the department of Computer Science and Engineering, as a faculty. He did his BE from BP Poddar Institute of Technology and M.Tech from BIT, Mesra, Ranchi in Computer Science and Engineering. His research interest is in Wireless Networks.



Mr Arup Kr Goswami joined us in June 2005, in the department of Electronics and Electrical Engineering, as a faculty. He did his BE from REC, Kurukshetra and M.Tech from BIT, Mesra, Ranchi in Electrical and Electronics Engineering. His research interest is in Power Quality, Power system reliability and DSP techniques in power systems.



Mr Kanhu Charan Bhuyan joined us in June 2005, in the department of Electronics and Instrumentation He did B.Tech from CET, Bhubaneswar and then he completed his M.Tech from IIT, Delhi in the Department of Electrical Engineering with the specialization in Control System and Automation. His area of research interest includes Fuzzy logic control.

Ms Sanghamitra Patri has joined as a Lecturer in the department of Computer Science and Engg in June, 2005. After completion of MCA from Utkal University

Ms Sanghamitra worked as a Research Associate in Central Rice Research Institute, Cuttack and as an System Analyst in Planning and Coordination Department, State Secretariat of Orissa. Her areas of interest include Internet Based Application, Web designing using JAVA Applet.



Mr Indranil Hatai has joined NIST in May 2005 and working with NIST's VLSI group. Mr Indranil has a working experience as *Project Assistant* in CAD Lab, E&ECE Dept. IIT, Kharagpur. He has actively taken part in the design and implementation of variable delays for an ultrasound imaging system and has designed projects using Verilog and Xilinx Modelsim. He has done his B.E from University of Burdwan in Electronics and Communication Engineering.



Ms Bijaylaxmi Choudhury joined us in May in the dept. of Computer Science & Engineering. She has done M.Sc in Information Technology from Sikkim Manipal University, Manipal. Her area of interest includes Data Base Management System. She has around 1 year of teaching experience in Computer Engg.



Mr Avijit Mukherjee joined us in July in the dept. of Computer Science & Engineering. He is a BE from MCKV Institute of Engg under Vidyasagar University. His area of interest includes S/W Developments using VB, Oracle, JAVA.



Mr Malay Roy joined us in July in the dept. Computer Science & Engineering. He is a BE from University Institute of Technology, Burdwan. His area of interest includes Software Developments and Web Technology.



Mr Raju Pal joined us in July in the dept. Computer Science & Engg. He is a BE from University Institute of Technology, Burdwan. His area of interest includes Software Development and Networking.



Miss Paramita Nag joined us in July in the dept. Computer Science & Engineering. She is a B.Tech from Govt. College of Engineering and Leather Technology, Calcutta. Her area of interest includes JAVA, Oracle and C.



Mr Parimal Das joined us in July in the dept. of Computer Science & Engineering. He is a BE from University Institute of Technology, Burdwan. His area of interest includes Software Developments and Networking.

Mr Krishanu Mukherjee joined us in July in the dept. of Computer Science & Engineering. He is a BTech from St. Thomas college of Engg and Technology, Kolkata. His area of interest includes OOPs, Embedded Systems and Software Developing.



Ms Minati Subudhi joined us in July in the dept. of Computer Sc & Engg. She is a BE from NIST. Her area of interest includes Data BaseManagement System



Meeting of two hearts....

❖ NIST faculty **Mr. Indraneel Mukhopadhyay** tied the knot with Ms Jayita Bhaduri on July 3, 2005 at SaltLake, Kolkata. The reception was on the 5th which was attended by many NISTians.

❖ NIST faculty **Mr. Sagar Sikdar** tied the knot with Ms. Ruma Biswas on July 3, 2005 at Thankunagar, 24Pgs(North), West Bengal. The reception was on the 5th July which was attended by many NISTians.

Facts about Premji

Partha S Mallick, faculty

Here are some facts about Mr Azim Premji, the Chairman of Wipro Limited.

- Mr Premji reads at least for an hour and a half in every working day. He often reads for an hour for a meeting that lasts an hour. Premji hates to walk into a meeting without preparation and expects everyone to emulate him.
- He never misses a file. Wipro executives ask Premji for a copy of a file or something when they lose it.
- He relies more on analysis and less on intuition.
- He pulls his employees back with his charm, even as he pushes them with sound business logic. An admonition for slackness at work may be followed by a meeting for a meal where he would say "I have got this dish specially made for you".
- He knows even the slightest of corruption in dealing with customers can have a disastrous effect on employees in the long run.

- Pemji came back from Stanford University in 1966 after his father's sudden death where he had gone to study engineering.
- Integrity and customer satisfaction are two of his core values. Hard work and discipline are the other two.
- In spite of his incredible wealth, Premji remains middle-class in his outlook.
- He takes his own decision too, sometimes against the prevailing wisdom of his executives.
- He wants Wipro to be among the top 10 IT companies in the world. Wipro should be a place where everybody wants to work. He also wants it to grow independently of the people working for it. These are his definitions of a great company.
- Character is one factor that will guide all our actions and decisions - he said in his Jawaharlal Nehru Memorial Lecture in Delhi last year.
- *Our teachers used to spend considerable time with us outside the classroom.* They had a big role in developing my character says Premji about his teachers of a middle class school in Bombay where he studied.

(Source: Business World, November, 2004)

Student's Corner

Mobile users beware

Sameer Kumar Tarai, 6th Semester

Slowly but surely, technology is showing up its ugly face too. Today it's increasingly used by new-age criminals in a variety of ways. The latest is mobile phone cloning. Millions of mobile phone users, be it GSM or CDMA, run the risk of having their phones cloned. And the worst part is that there isn't much that you can do to prevent this.

WHAT IS CELL PHONE CLONING?

It is taking security data from a cell phone and reprogramming another with it. It works similarly as an extension in the land line. Though calls can be made from both phones, it's the original that will be billed.

HOW IT IS DONE?

Both a GSM and a CDMA phone can be cloned. A SIM can be cloned again and again and they can be used at different places. The messages and calls sent by these can be tracked. But if the accused manages to also clone the 15 digit IMEI (International Mobile Equipment identity) number (for a GSM phone), there is no way he can be traced. All someone needs to do is get these and reprogramme another phone with them. There are other software packages such as Patagonia which can be used to clone a CDMA phone.

HOW EASY IT IS?

Very, if you have the software and equipment, all of which is freely available on the internet.

THE BACKGROUND

Cell phone cloning is very popular in countries with high immigrant population where calling home is expensive. Cloning can be for calls, mischief or criminal intent.

The Taste of B-School

Richa Sharma, Bishal Mandal, Debal Kr Chakraborty, Raj Kr Mahanty

Like many other summer courses this time some of the NISTians had the opportunity to spend it in top MBA colleges such as **XLRI Jamshedpur** and **XIM Bhubhaneswar**. We had enrolled ourselves for a course in network management in Linux environment. XLRI Jamshedpur was headed by Dr. A. K. Pani and Prof. Swarup Mandal and XIMB was headed by Dr. Gopal Nayak. The lab facilities in XIMB was top class while in XLRI it was outstanding. The net facility in XIMB is 12*7 while in XLRI it is 24*7. We were also given access to the library facilities in both the B-Schools. Mr. Varun Jha (**CIO, TATA STEEL**) introduced us to Linux and thus the course started. Mr. Swapan Purkait (**CEO, NETTECH**) took us to the depth of Linux servers which included Apache, Samba, DHCP, DNS, sendmail, FTP, TELNET. Each day for 30 minutes there was a test and the 1st three winning groups' names were displayed on the main screen. It so happened that NISTians were in the top slots each day. Here we encountered students from IIT Kharagpur, BIT Mesra, NIT Rourkela, NIT Jamshedpur, VIT Vellore, UCE Burla, OEC and ITER Bhubaneswar. We were asked to show our creativity in network management through collage competition. In a true professional manner the final project was held. We were given 2 servers and 8 workstations to configure Linux servers from top to bottom. The test started at 10PM and we gave our presentation at 5a.m. The mail from 1st server to 2nd server stated that the **gladiators had won**. In **XLRI Kumar Abhishek** of CSE won the 1st prize and in **XIMB Satyakam Rath** of EIE won the 1st prize. The closing ceremony was marked by serious bird watching and a huge dinner party. But for us the dream to go to an MBA college has just begun.

Joke

Spinner or Fast bowler!!

Sudip was a very good spin bowler and always used to look down the fast bowlers arguing that for fast bowling one needs only strength while for spin bowling one needs sharp brain. But this proud spin bowler immediately after his marriage changed his views and started encouraging fast bowlers. Because the first discussion with her newly married wife, *Smita* was like this...

Sudip: Who are your closest friends?

Smita: Prabal, Amrita and Anjali

Sudip: No No No...I am asking about boyfriends

Smita: No No ..not at all

Sudip: Some boys must be there na, just tell what maximum friendship you had

Smita: We used to study together during exams, that's all

Sudip: No No No you are hiding something...tell frankly

Smita: After exams we used to go to a movie, that's all

Sudip: No No No ...please be frank

Smita: From movie we used to go to a beach, dine and come back. That's all, nothing more.

Sudip: No No No, be 100% frank please, I'll take it sportively

Smita: What dear ! You are a cricket player, and still you don't understand. Can a spin bowler ever get a new ball?

(Dedicated to our Final year student and spin bowler Sudip – Editor)

People were unsure whether Manmohan Singh was the right person to be the PM of India. He was more an economist and thinker than a hardcore politician. Now people are very impressed by how firmly he has been getting on with the job and pushing his cabinet ministers to get things done. He is very hands-on and interested in change, not politics....**James J C Birch, Business World, November 2004.**

TREKKING – 2005

Vinay Kr. Das(SAC Coordinator)

Under the Student's Activity Center (SAC), NIST Adventure Club has conducted Trekking-2005 at the Himalayas in this summer break. Around twelve student's represented the *NIST Trekking team* for NATIONAL HIMALAYAN TREKKING-05 with Mr. Ajay Kumar Rath (Faculty), Miss Basanti Patro (Yoga Instructor) and Myself. The trekking places are *Kasol, Datseri, Tindar Bhand Thatch, Khadiaru Thatch, Nagaru, Sar-Pass, Biskeri, Bhandak Thatch and Barsanhani* (all the places are in Himachal Pradesh). The team has successfully completed 70 kms trekking route in just 7 day's and climbed upto 13,800ft from sea level.



A trekking expedition route to SAR-PASS in Himachal Pradesh was introduced since last 35 years. The purpose of exploring new trails has been to introduce the

youth to the Himalaya area, their topography, culture, flora and fauna and provide an

exclusive adventure sports activity. The route was full of scenic beauty and cultural diversity. It had vast tracts of meadows, tall pine tree's and pastures lying across beautiful mountains. *Nagaru, Biskeri and Bhandak Thatch* are a few magnificent locations, which can be approached while trekking to SAR-PASS. SAR-PASS, located at a height of 13,800 ft. from sea level provides an awesome and breath taking view of some of the most beautiful snow clad



mountain peaks. The trek route passes through dense forest with a variety of Botanical species of thick and colourful foliage, enchanting fragrance, and compelling passersby to view and appreciate the raw natural beauty.

The purpose of the trekking program every year in NIST, is to expose to our student's to a greater adventure and to rough out the rigors of plodding through snow with a sense of love for nature and outdoor recreational activity. Sar-pass trail offers an opportunity to enjoy the timeless beauty of *Parvati Valley* with *Kasol, Nagaru, Biskeri and Manikaran* as its spot. Hot water-springs of *Manikaran* is a bliss. A natural hot water bath at these springs relieves you from all tiredness and rejuvenates the body and mind with new energy.

How to reach: For SAR-PASS trail, the base camp is at Kasol which is linked by the road to Kullu via Bhuntar. It is 5km short of Manikaran, famous for hot water spring and Gurudwara. Regular buses are available from Delhi and Chandigarh. Nearest railhead are Joginder Nagar, Pathankot and Chandigarh. Nearest airport is Bhuntar.

Students View towards Trekking – 2005

From: P. Vikram, 3rd Sem, Sec-D, 200430426

6th June 2005, the day of real adventure, the day of crossing the much awaited “SAR-PASS” and also the day of sleeping on the highest point of the trek. We were very much excited on one side & on the other side very eager to cross from ‘NAGARU’ to ‘SAR-PASS’. A place covered with snow all through out the year. My excitement was at the top as I covered each step to look & feel, what will be the next? We were 16 but all of us were having only one thought, one aim & one destination. Our unity and our zeal made us to cross all the ice-slides, hills, rivers joyfully and safely. Those camp-tents, camp-fire, local song, sleeping bags really pulled out all the tiredness with our Mr. Ajay Rath Sir with his lovely classic Hindi melodies which in turn filled lots of colour and enthusiasm during the trekking. Thanks to Vinay Sir and NIST to arrange this trip so excellently.

From: Abhijit Satish Kumar Dwary, 3rd Sem, CSE

Mid-march, notification on SAC Notice Board gave a new type of sensation among the students. 78 applications reached in just two days and finally we sixteen moved for the adventurous “HIMALAYAN TREKKING” on 29th May 2005 at 4.00 p.m. from Berhampur and reached Delhi on 31st May, KASOL (Base Camp at Himachal Pradesh) on 1st June.

“The day you have joined NIST
Life is in tension
The logo of tension is
Work a lot and enjoy a lot”

Really, we had to work a lot in the trek (Both physically & mentally) and the important aspects were interactions with other state peoples, making friendship and especially, we learn “what to do, when danger is in next step! In fact “challenges don’t daunt me, they spur me on”. These 7 days trekking was not just a tour. I felt it like 7 challenging days of my life. Every moment there was question “ I can or I can’t” still I had the confidence to add a benchmark in my record book. A great idea on walking on a path covered with ice & that path when on mountain, knowledge of climate change in mountain areas. According to the local people of these areas “*Aurat ki mijaj aur Pahad ka Mausam ek jaisa hota hai*”. After every bench mark the slogan was HEI.....CHI.....it was made possible because we are NISTians & this proves sky is not the limit for us. We can do wonders however hard the work may be. Thanks to our Students Activities Center for such an adventure.

We are 16 Pranav Ku Nath, 3rd Semester

Rocking out, and
Rocking in
On the Trekking
We are Sixteen.

Palur Hills out, and
Himalaya’s in
Summer course out, and
on the Trekking
We are Sixteen.

Summer out, and
Ice in
On the SarPassing
We are Sixteen.

Network Out, and
Foot walk in
Duriyan shout, But

All are laughing
We are Sixteen.

Suitcase out, and
Rucksack in
With a stick for climbing
We are Sixteen.

Sweating out, and
Chill In
Forest shout, and
Fountain sing
We are Sixteen.

Night chill out, and
Day chilling,
Rocking, Climbing and Mountaineering.
U know,
It’s great Going

New Column....

If there was any thing more one needed to know about world events then here's a new column being introduced . It is ***Kaleidoscope***. So if ever you thought that newspapers were boring; think Again!

KALEIDOSCOPE

Rakesh Parida, 6th Semester

The day September 11 witnessed two metal birds colliding with the WTC towers and bang, the world changed for all of us. When Al Qaida which symbolized all that was good, bad and the ugly, smoldered the two pillars of liberty, freedom and globalization, we knew that we weren't living in the same world no more. Big brother America promised not only to cleanse its own shores but also took a rather unwelcome stance at sanitization of the whole world. Now it has already steamrolled Afghanistan and then Iraq. With North Korea next on the list, the Axis of Evil isn't getting any smaller. Now how has all these changed the way we talk about life? Is New Delhi all that far away from New York? I guess not because it seems the yanks are giving us our daily bread at least for now, so we need to look at everything that happens all over the world to be giving that extra bit of pain in this already painful existence. Call this the downside of the global village but we are already living in the shadow of all that's sunny and gloomy all over the world. This column being introduced from this month will try being that extra morose in the turn of world events that are affecting your life (I really don't think there is a whole lot of jingle bell events happening around us!) Kaleidoscope will try to give you a panoramic view of global events. Does Bush choking over a pretzel or Blair loosing his dog affect us technocrats? Maybe....

What's more, the London tube gets bombed on the 7th of July (Believe me I am sad for the forty odd free world citizens!) and the whole world already is talking about bombing yet another Muslim country. Trust me, visa restrictions and tighter immigration laws are already in the pipeline. So again we'll find the going getting tougher in the western world. Sikhs all over Britain are already being subjected to hate crimes. I am not a misanthropist but buddy; I need to know where my next meal is coming from. Rest assured Manmohan Singh is doing a great job at the G8 summit at Glasgow this month. All those world leaders posing together did make a happy picture. Maybe India is not that far off the G8 map (Touch wood). It was great seeing all the musicians coming together for the LIVE 8 concerts all over the globe to alleviate poverty in Africa. Nice to see that the 'care' factor still exists! Staying with Britain, the first week of July saw the local tabloid *The Sun* going all guns blazing on the Indian software industry. Now come on, the west can't be that skeptic to think that this one off incident can malign the repute and sincerity with how an Indian IT worker does his job. There is certain prejudice with how the whole matter was dealt with. I know that that western professionals are already apprehensive about the whole outsourcing thing but I never thought that we can go to such a low (I really don't think that covert sting operations are for us software gurus) Even if you still don't trust Bangalore, here's a wake up cal, 90% of all IT crimes in the world occurs on American shores. Now the world has to start understanding the facets of the free world where India is no more on the back burner. On the contrary, we have POSCO the fifth largest maker of steel opening up shop in our backyard. That's the largest foreign direct investment in India at least for the time being. We are growing in terms of money, power and status (And you only thought that the growing population was our sole strong point!) That's making the whole country to galvanize into a society which says *I can!* We certainly are becoming a lot mature. Advani with his retro speech secularizing Jinnah was a pleasant surprise. Has Indian politics lost its right wing? On a lighter note, the sports scene has been all jovial. Sania with the racket and Narain with the wheel have given new meaning to the term *Killer Instinct*. Narain hasn't got a contract for next year though I sincerely believe he's good enough for the job. Sania was promising on grass; hopefully we can see her

winning a little more on the hard courts. Sport has become something of an escapism for the Indian couch potato. Cricket is still in the limelight. Greg Chappell has ensured that we go into the new season with ample publicity (I'm sure they have already have more than required!) I would be surprised if it was all *Diwali* for India for long. Terrorists rocked our boat by bombing *Ayodhya*. Now come on, have they decided upon a place which was already in ruins? I was actually getting worried about our terrorist outcasts since these brats don't remain unvoiced for long. India has always had its own set of speed breakers but I suppose its time for us the *Indians of the future* (Yes I'm going to work in my homeland!) to stand up and get noticed. We reside in a changing world where the *NIKE* logo is more recognized than Jesus himself so it's not as tough as it looks. Let's hope that Santa has some happier news coming out in the forthcoming issues. Kaleidoscope will be there for you to acquaint you with all that's good and bad with a pinch of salt.

Alumni Page

From: *Debiprasad Dash*" <*Debiprasad.Dash@lntinfotech.com*>

To: *psmallick@yahoo.com*

Date: *Wed, 20 Apr 2005 20:36:26 +0530* **Subject:** *Hellosir how r u.*

Hi Sir, Hope you are fine and enjoying in NIST. I think you can remember me, I am Debiprasad Dash from 2003 batch, presently I am working with L&T Infotech Bangalore, I always go through the NIST e-news, and feel good about NISTian's achievements. We feel little bit relaxed in this busy professional life by reading your e-news articles and praise your outlook. It is a long time I have been to NIST and have spoken to you. You might not remember me but I remember you very well, your style, your dress code, your Bengali mix Hindi, your style of taking lectures, your teaching methodology, your smile, your anger, your unique way to call the students to give presentation, your style of asking questions and at last your dance in the waves. For me you are unique in NIST and one of my favorite teachers. Most of us from 2003 batch speak about you. And what about others? Convey my regards to my favorite *padhisir*, *pandasir*, *rehmansir*, *bhabanisir* and others. Hope I will get a reply from you soon. Thanks and Regards. **Debi Prasad Dash, Software Engineer Communication and Embedded Group. L&T Infotech, Beta Block, Sigmatech Park. Bangalore. Ph:080-28525288(Ext-6127).**

Date: *24 Apr 2005 08:54:12 -0000*

From: "*amit kumar nayak*" <*nayakkumaramit@rediffmail.com*>

To: *psmallick@yahoo.com*

Subject: *Regards from Amit*

Dear Sir, How are you and your family? I'm fine here. How are things going on? Now I am in Wipro. I have published a "whitepaper" on SDH (Synchronus Digital Hierarchy). It was published in "Wipro Tech forum" and in its internal website. So I am sharing with you. Please see it once if you have time. Regards, **Amit**.

Date: *Sun, 10 Apr 2005 16:06:26 +0100 (BST)*

From: *balakrishna gupta*" <*balakrishna_gupta@yahoo.co.in*>

To: *psmallick@yahoo.com*

Subject: *hello sir...*

Hi Sir, Hope you would be fine there and must also be quite busy because of the new assignments. Sir I was not able to keep in touch with you due to the work load. But hope now I will find some time for that. As you know Sir, that I have joined Siemens in Power Automation. I am posted in Gurgaon and presently on tour to Rajasthan for retrofitting job in distance protection schemes for RRVPNL, Rajasthan. Sir, you might be aware of the placements of our batch. I am proud of all my batchmates, for our achievements. It's a great feeling Sir for being a part of the NISTIANs, 1999-2003 batch. Best of Luck to the junior batches. **B. Gupta, PTD-PA, Siemens, Gurgaon.**

Interview

To be a better professional you should be able to work in a team, lead it, work harmoniously in a team under strenuous situations --- **Ritwick**

From: "Ritwick Sanyal" <u103038@ximb.ac.in

To: Padmalina Kabita(Student Representative, NISTe_News)

Hi Kabita, Here's the reply to your questions. Hope all of you are doing fine and all are fine at NIST. Bye. **Ritwick**.

E_News: A few lines about yourself

Ritwick: I am Ritwick Sanyal, from Rourkela. I did my schooling both class X and XII from St Paul's School Rourkela. I joined NIST in 1998 and after passing out from NIST worked for 3 months with CA TCG, offshore development centre of Computer Associates, before joining XIMB. Passed out of XIMB in 2005 and joining Pricewaterhouse Coopers, Kolkata in 2005.

E_News: About your present life

Ritwick: Presently I am at home waiting for my date of joining. I would be joining PwC as Technical Consultant in their Technology Advisory Services (TAS) division.

E_News: Your experiences at Xaviers that have helped you to groom yourself?

Ritwick: My 2 years at Xaviers has definitely helped me to groom myself professionally. I believe only being good at academics doesn't make you a better professional. To be a better professional you should be able to work in a team, lead it, work harmoniously in a team under strenuous situations, work with unknown people and build up camaraderie as quickly as possible in the team and achieve results in the given time frame. Xaviers had given me ample opportunity to develop all the above.

E_News: Do you think that getting good grades only are important for your academic achievement? Or should one devote time for extracurricular activities?

Ritwick: I don't believe getting good grades only is the sure way to success. Well good grades definitely gives you a cushion in hard times particularly when the job market is bad. But in good times and bad your extracurricular activities will definitely give you an edge over the others. I have felt that excellent communication skills and the ability to meet people and get along with them are the two non-academic qualities that will take you a long way. Besides that recruiters do give preference to candidates who have shown excellent results in team games as they believe these candidates have the capability to work in teams. If you are into extra curricular activities be serious in it and try to excel in it. Then this will definitely help you, if not today then sometime later.. but it would surely do.

E_News: What accomplishment(s) have given you the most satisfaction in life?

Ritwick: Getting admission into XIMB has been one of the biggest achievement in my life. I would not have considered this as my biggest achievement two years back, but now when I think back on these 2 years, I think the amount of learning and the friends I made there has indeed been the best.

E_News: Your fond NIST memories.

Ritwick: Well till this day I remember Reddy Sir telling me " First become a man then become a manager". I have tried to follow his words in hard times and succeeded sometimes and failed sometimes. But thanks to him for showing me the right path that day. Other fond memories include sitting in the then newly built octagon and chatting with friends, Sitting in the library till 9pm in the evening and sometimes instead of studying passing away the time gossiping, starting the CATS group and studying together for CAT and other MBA exams. At NIST I have found many good friends and a special person. Memories of NIST will remain fresh forever.

Research and Development

Conference Paper

Amalendu Patnaik, Dimitrios Anagnostou, Christos G. Christodoulou, James C. Lyke - A frequency reconfigurable antenna design using Neural networks, Accepted for presentation in *IEEE Antennas & Propagation Symposium*, Washington DC, 6-9, July 2005.

Amalendu Patnaik, Christos G. Christodoulou - Neurocomputational Analysis of a Frequency Reconfigurable Antenna - Papers accepted for publication in *International Union of Radio Science General Assembly* to be held at New Delhi during October 23- 29, 2005.

Rowdra Ghatak, Rabindra K. Mishra, Dipak R. Poddar, **Amalendu Patnaik** - Multilayered Complimentary Quasi-Fractal Sierpinski Patch Antenna for Wireless Terminals - Accepted for publication in *International Union of Radio Science General Assembly* to be held at New Delhi during October 23- 29, 2005.

Amalendu Patnaik, R. K. Mishra, **Rowdra Ghatak** - Element Failure Detection in Antenna Arrays Using Neural Networks. Papers accepted for publication in *International Union of Radio Science General Assembly* to be held at New Delhi during October 23- 29, 2005.

NISTians innovations...

- **Dr Partha S Mallick** and **Mr Dutikrushna Panda** worked on Indium Antimonide. They calculated electron mobility in InSb using Monte Carlo simulation technique for different applied electric fields. The mobility values have then been expressed empirically by simple power law relationship. These empirical relations can be used effectively for a quick estimation of mobility, as a check on experiments and also as sufficiently accurate formulae for simulation and modeling purposes. The work was published in the *Indian Journal of Physics, Vol 79(3), 301-3, 2005*.
- The technology of design and fabrication of microelectromechanical (MEMS) for RF circuits has put a major positive impact on reconfigurable antennas. For a frequency reconfigurable antenna, the challenging task is, how to connect the radiating elements together, such that the resulting module will have desired frequency bands of operation, or in other words to determine which switches to turn ON, so that a specific set of elements will be active to make the structure to operate at desired frequency bands. **Dr Amalendu Patnaik** has worked using neural networks to determine the switches to be made ON, in order to make the antenna to resonate at specified frequencies and the developed formulation is tested on a laboratory prototype antenna. It was published in the proceedings of *IEEE Antennas & Propagation Symposium, Washington DC, USA* in July 2005.

- **Dr Amalendu Patnaik, Mr Rowdra Ghatak** and others worked on the use of neural networks for the detection of the failed elements in arrays at the controlling center by observing the pattern of the defective array. The job of the network here is to form a mapping between the array pattern and the failed element positions. A feed-forward neural network trained in backpropagation mode serves this purpose. They have developed algorithm which was tested for a linear array and the methodology developed can also be extended to planar arrays. The work has been accepted for publication in *International Union of Radio Science General Assembly to be held at New Delhi* during October 23- 29, 2005.

ISTE Lecture series...

- **Mr. C. P. Pujari**, General Manager of Paradeep Phosphate, delivered a seminar on “*Management Changes in Indian Industry*” on April 29, 2005 at Lecture Hall Complex, NIST.
- **Prof Suash Deb** of NIST delivered a lecture on July 15, 2005 on *Artificial Intelligence – an overview*. NIST M.Tech students, R&D Coordinator, Course Coordinator(M.Tech) and Batch Coordinators attended the workshop.

Career Corner

MBT Questions with Answers Priyadarshini Panda, Final Year

1. If on an item a company gives 25% discount, they earn 25% profit. If they now give 10% discount then what is the profit percentage?
(a) 40% (b) 55% (c) 35% (d) 30%
2. A certain number of men can finish a piece of work in 10 days. If however there were 10 men less it will take 10 days more for the work to be finished. How many men were there originally?
(a) 110 men (b) 130 men (c) 100 men (d) none of these
3. In simple interest what sum amounts of Rs.1120/- in 4 years and Rs.1200/- in 5 years ?
(a) Rs. 500 (b) Rs. 600 (c) Rs.800 (d) Rs. 900
4. If a sum of money compound annually amounts of thrice itself in 3 years. In how many years will it become 9 times itself. (a) 6 (b) 8 (c) 10 (d) 12
5. Two trains move in the same direction at 50 kmph and 32 kmph respectively. A man in the slower train observes the 15 seconds elapse before the faster train completely passes by him. What is the length of faster train ? (a) 100m (b) 75m (c) 120m (d) 50m
6. How many meshes are there in 1 square meter of wire gauge if each mesh is 8mm long and 5mm wide? (a)2500 (b)25000 (c) 250 (d) 250000
7. x % of y is y % of? (a) x/y (b) 2y (c) x (d) can't be determined
8. The price of sugar increases by 20%, by what % should a housewife reduce the consumption of sugar so that expenditure on sugar can be same as before?
(a)15% (b) 16.66% (c) 12% (d) 9%
9. A man spends half of his salary on household expenses, 1/4th for rent, 1/5th for travel expenses, the man deposits the rest in a bank. If his monthly deposits in the bank amount 50, what is his monthly salary? (a)Rs.500 (b) Rs. 1200 (c) Rs.1000 (d) Rs. 900
10. 15 men take 21 days of 8 hrs. each to do a piece of work. How many days of 6 hrs. each would it take for 21 women if 3 women do as much work as 2 men?
(a) 30 (b) 20 (c) 19 (d) 29

ANSWER: 1.D 2.A 3.C 4.A 5.B 6.B 7.C 8.B 9.C 10.A

To be placed or not to be placed? Anjan Dasgupta, Faculty

Last year on a sultry August afternoon (it might also have been an early September one); our college was hosting the orientation programme for the fresh M.C.A batch. There were welcome speeches, one after another and when Dr. Reddy took the stage one was expecting yet another speech. But Dr. Reddy immediately had the audience in his grasp when he harped upon an issue in his typical comic vein.

He was talking about issues pertaining to placement. It goes without saying that when a student joins these technical courses it is a job, which takes the top priority in the mind of the parent. There is more than one issue for getting a job in the cutthroat competitive scenario that we are into. Mere knowledge is not adequate. What else is then required? I will not discuss about the intricacies of such issues at this juncture but mention one aspect of every successful interview, the desire to win and the killer instinct. This is one area where I feel the NIST students lag in. I will cite an example. A few days back a final area student, seated beside me in the bus was telling me that he would go for an interview scheduled for the next day. He and his mates would avail the East Coast Express so as to reach Bhubaneswar, the place for their interview at around 5. They would have to appear for the written at 7.30. I asked him what would he do if the train were late. I warned him he would be deadbeat and that it would reflect on his face. I advised him to leave by Chennai Mail that very day. However this story has a happy ending. A couple of days later he was waiting for me to inform me that he was selected and was richer by Rs 20000 every month. Out of 100 odd NIST students 8 got selected. And yes, he had left by Chennai Mail.

I am not that naive that I will assert that he got the job because he left by Chennai Mail but that certainly was a favour. I had the good opportunity of meeting many 8th Semester students who came to me for their format checking. From their body language and communication I could assert that they had not yet got jobs. They lacked communication skills, hardly had any body language or attitude. Think of the frustration that might accumulate if after four rigorous years and a fairly decent percentage to boast of one does not have a job at hand. Even the thought must be too odious. So what does one do?

The answer is simple. One must hone the skills, which are required to get success in interviews and the ubiquitous group discussion. Ours is one of the few colleges, which has such a rigorous pre-placement training process. It is sad that students need to be dragged into the classes and rules have to be made that they must have a certain percentage in the classes otherwise they will be debarred from any placement activity of the college. This rule has been followed strictly by the college. But it really is quite inexplicable to me as why are the students so naive!

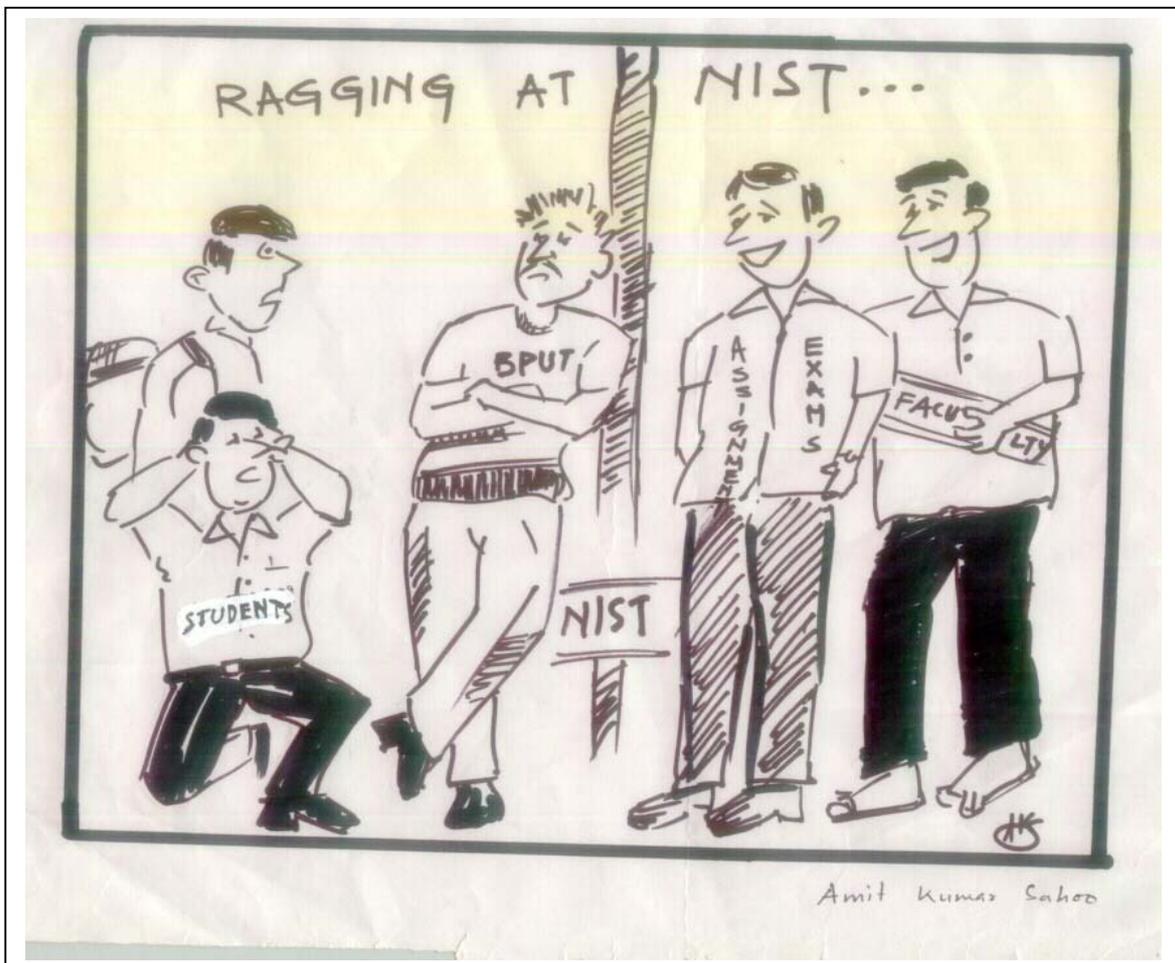
So, the students should take these issues very seriously, and the hands that might help are not very far away and they do not come for any extra charge. People else where are spending a fortune for such training! So it is about a better focus and being better equipped. Think of the Indian team before Saurav took up its mantle. What it lacked was the killer instinct and that made the difference. So with a concerted focus and the urge to achieve the sky is the limit for NISTians. So the answer to the query posed at the title of this article is obvious, "TO BE PLACED", each and every NISTian.

Person of the Month

Mr Naresh Chandra Choudhury, Office Executive of NIST, is the Person of the month. Mr Naresh joined NIST on September 05, 1996 and has been providing excellent service to all NISTians since then. He is the 3rd son of late Mr Rath Choudhury and Mrs. Uttam Choudhury who hails from Aling, Kasarda, Cuttack. He did his graduation from Berhampur University and schooling from Janata Vidyapith and +2 from Dolagobinda Braja Kishore Mahavidyalaya, Deputytota. Mr Naresh tied the wedding knot with Ms. Sachala Choudhury on July 15, 1999 (Wish you a HAPPY ANNIVERSARY!! --- from NISTians). Mr and Mrs Naresh are blessed with one son Sri Neegamananda Choudhury who is now studying in standard UKG in De Paul school, Berhampur. He is one of the essential members of NIST Volley ball team. His hobbies are Volley ball, Billiards and social work.



Cartoon of the Month



**NISTe-News Welcomes
the New batches of
B.Tech, MCA and M.Tech**