

Message from the Director



The success of the 2001-2005 batch in numerous placement opportunities in the last 1-2 months has kept us in high spirits. From all indications, the job opportunities in the IT segment seems of the 1990's vintage. At the same time the opportunities in hardware and communication technologies are emerging more rapidly. Under the circumstances, very bright students have a choice of working in pure product development in exciting areas. At the same time, higher education such as M.Tech/MS and Ph.D are very reasonable choices since both industry and academia are ready to welcome such candidates. Academics which has long been considered only the domain of the "research type fellows" is now turning a new leaf by welcoming candidates from the industry and retaining them through schemes such as training and consultancy incomes, industry projects, faculty-as-entrepreneur schemes, sabbatical programs, etc. On my part, I would be delighted to see NISTians do Ph.D in top schools of India or US and return to an academic position to further the growth of quality manpower in our country. The demand-supply gap in the field of academics is ever widening and I fervently hope a large section of our bright student community take a plunge in the field of academics. While I agree, that such a career move involves a substantial sacrifice in pay packet, but the freedom of work, the lure of teaching bright young minds, the academic ambience and the creative energy unleashed is incomparable. Give it a thought!

The first year batch of 2004 have hit the ground running. The classes are in full swing and examinations are as always breathing down their necks. The Institute has retained its unique record of a ragging free environment for all newcomers due to the active cooperation of all senior students and faculty members. I take this opportunity of welcoming our MCA and M.Tech batch of 2004. With Best Wishes,

September 15, 2004

Sangram Mudali

Message from the Editor

First of all, I would like to apologize, as I could not publish the August issue of NISTe_News. As a compensation, four more pages have been added to this current issue to make it a total of 20 pages.

I would like to share one of my experiences during my recent visit to IIT, Kharagpur. I met with some Professors and discussed with them about their R&D activities and also I explained to them our R&D activities. First I met with Prof B N Das (ECE) who found a mobile phone in my pocket and gave me a small lecture on why I should not use it. In addition to the harmful effects on the human body, it also smashes the concentration of professionals. After that I discussed with some other Professors of IIT and found out that no one is using a mobile during their working hours. In the labs and classes of IIT it is completely banned! This seems amazing to me considering that all around us we see that having a mobile is a fashion statement and it is almost a dress code amongst the youth. Should NIST ban the use of mobiles in all of its campus? I await your suggestions.

September 15, 2004

Partha S Mallick

Placement of the Last Month
(August 15, 2004 – September 15, 2004)

Batch: 2000 - 2004

<i>S. No</i>	<i>Name of the student</i>	<i>Name of the Company</i>
1.	Aurobindo Jena	Accenture, Bangalore
2.	Salini Pattnaik	Accenture, Bangalore
3.	Debabrata Das	Accenture, Bangalore
4.	Amit Ranjan Tripathy	Accenture, Bangalore
5.	T Rahul, Kirti Chandra Sahu	Accenture, Bangalore
6.	Dhananjay Mohanty	Accenture, Bangalore
7.	Madhusmita Mandal	Accenture, Bangalore
8.	Binay Kumar Mishra	Accenture, Bangalore
9.	Amrita Panda	Accenture, Bangalore
10.	Kamakhi Prasad Panigrahi	Accenture, Bangalore
11.	Partha Sarathi Nayak	Accenture, Bangalore
12.	Deepak Boppudy	Accenture, Bangalore
13.	Amit Kumar Mahapatra	Accenture, Bangalore
14.	Deepak Kumar Sadangi	Accenture, Bangalore
15.	Sidheswar Samant	MBT, Pune
16.	Sarmila Acharya	MBT, Pune
17.	Rakhi Ghosh	MBT, Pune
18.	Shambhu Kumar	Sasken, Bangalore
19.	Manjit Hota	Sasken, Bangalore
20.	Sibaram Nayak	Sasken, Bangalore
21.	Nishi Kanta Das	Sasken, Bangalore
22.	Durga Charan Padhy	Sasken, Bangalore
23.	Soumen Barua	Glee Technologies
24.	Ajay Topno	Glee Technologies
25.	Ravish Ranjan	Glee Technologies
26.	Rasmita Jena	NTCS, Berhampur
27.	Nubita Bisoyi	NTCS, Berhampur

Another book from NIST publications



NIST Faculty of Computer Science & Engineering, **Mr K Lakshmi Narayana** has written a book titled “Linux for Beginners – a self study book” which has been published by NIST Publications recently. It is a very useful guide for those who want to learn about the Linux system. The clear presentation and easy-to-follow style make it suitable for the user. This book has been well received by the faculty member and students. Mr Lakshmi Narayana is an MCA from JNTU and has a long teaching experience and expertise in this field.

NISTe_News welcome **Padmaleena Kabita, Priyadarshini Panda** of Final Year who will be working as NISTe_News representatives.

News Corner

Accenture and Sasken

– NISTians top the charts

Accenture – the \$14billion Bangalore based company visited Orissa for the first time in the first week of September to recruit the students of the 2005 batch. The students from all the top colleges of Orissa including KIIT, CET, NIT–Rourkela, Silicon Institute of Technology, ITER and NIST sent their students for the *Accenture* Placement. The highest number of students were selected from NIST! 15 students were selected finally which is the highest among all other colleges. Similar success was achieved by our students in Sasken Technologies, a Bangalore based Company. Out of 12 students selected from all over Orissa, 5 students were from NIST only! Congratulations to all recruits.

IEEE Student's Chapter at NIST

After two successful of NIST's ISTE Students Chapter, now NIST has been approved for the IEEE Students Chapter. This is the first students Chapter of IEEE in Orissa. NIST faculty **Mr Rowdra Ghatak** is the faculty advisor of the IEEE student chapter. We expect many events from IEEE student chapter under the able leadership of our faculty advisor and student members.

M.Tech Result – the best of BPUT

NIST M.Tech – 2003 batch students have come out with flying colors in the recently published 1st year result of BPUT. 14 students passed out of 16 (Pass percentage is 87.5) which is the highest percentage in comparison to UCE Burla and ITER, BBSR. The highest CGPA of 8.79 in ECE is Mr. Manmath Ray of NIST. The other Mtech students of NIST who are in top 5 are: Samikhya Dash (CGPA 8.38), Debabrata Purohit (CGPA 8.27), Meryleen Mahapatra (CGPA 8.10).

NIST Toppers in B.E - 1996 Onwards

Here is the list of NIST Toppers of the previous batches starting from 1996 (which is our first batch). Their stellar performance has paved the way for all the current batches. Nirajana Nayak(Topper: 1996-2000 batch) Siddartha K Panda(Topper:1997-2001 batch) Srimanta Panda(Topper: 1998-2002 batch) Kabita Mahapatra(Topper:1999-2003 batch) Rohan Kanungo(Topper: 2000–2004 batch) NISTians congratulate all of you on your marvelous University performance.

Top Ten of 2003 batch under BPUT

The top ten students of 2003 Batch as per the recently published BPUT 1st year results.

Name and Branch	CGPA
Sambit Kumar Sabat(ECE)	9.47
Deep Sengupta(EIE)	9.24
Hrushikesh Mukherjee(EIE)	9.18
Upasana Panda(ECE)	9.05
Agni Prakash Sahoo(ELE)	9.04
Dibas Dwivedy(ECE)	9.04
Sandeep Tripathy(ECE)	9.02
Biswaranjan Gouda(CSE)	8.98
Battula Srinivas(ECE)	8.98
Swagatika Panda(ECE)	8.98

Congratulations. Keep it up.

NIST Students of 2000-2004 batch: Toppers of Berhampur University

Our 2000-2004 batch students have shown their talent again in the recently published Final result of B.E. For the first time, NIST students have **bagged all the top positions in each and every department from among all colleges under Berhampur University**. This is a stupendous achievement by our students.

Branch	Name	(%)
CSE	Biswa Ranjan Sahoo	84.04
ECE	Nubita Bishoyi	83.38
ELE	Rohan Kanungo	86.07
EIE	Rajalakshmi Sahoo	82.78
IT	Deepa Choudhury	85.6

Monbusho Scholarship, 2005

Three students of 2003 batch have qualified in the written exam for Monbusho Scholarship 2005 of the Japanese Govt. The written test was held at Kolkata on August 8, 2004. The students are **Sonali Mishra, Agni Prakash Sahoo, J. Rakesh Kumar**. Wish you all the best for the Viva-voce.

Orientation Day at NIST

Orientation program for the **B.Tech** program was held on August 8, 2004 at NIST campus.



B.Tech students and their parents/guardians attended the function. Orientation program for the **lateral entry** students was held on July 28, 2004 and the M.Tech Orientation day was held on September 13, 2004 at Conference Hall. Orientation Day is to introduce the students with faculty members and other office staffs.

Winner of WEB DESIGNING PROJECT

The Web-design Course and Project of 2nd Semester (2003 batch) ended successfully under the guidance of Mr. K. Lakshmi Narayana & Mr. Sushant Mahapatra. Our Director Mr. Sangram Mudali and other Faculty members evaluated the projects. The following students have been selected and received Certificates and Prizes from the Director. 1st Prize:Rajul Kumar Sharma (Roll No: 279) and Rahul Kumar (Roll No:

400), 2nd Prize: Suchismita Panigrahi (Roll No: 273) and Smita Rani Padhy (Roll No: 416), 3rd Prize:Gajendra Seth, (Roll: 423).

Economic Hardship Scholarship at NIST**Amar Bikram Sahoo**

NIST is providing Economic Hardship Scholarship of Rs. 500.00 per month to the students every year. This year the following students have been selected for the scholarship.

2003 Batch:

1. Chittaranjan Biswal
2. Debasish Behera
3. Manas Ranjan Behera
4. Basant Kumar Samantara
5. Gyandeep Muni
6. Rajesh Kumar Pati
7. Mitu Baral
8. Jayashree Mohapatra
9. Susanta Kumar Moharana
10. Biswranjan Barik

2002 batch:

1. Hemant Kumar Sahoo
2. Sibaram Behera
3. Ashok Kumar Swain
4. Sivananda Acharya
5. Muktikanta Sa
6. Ashish Kumar Das
7. Dayal Kumar Behera
8. Ramachandra Sethy
9. Chittaranjan Prusty
10. Md. Imran Ansari

2001 batch:

1. Ananda Kumar Behera
2. Sasmita Swain
3. Mini Polai
4. Gopal Behera
5. Maheswar Dalai
6. Manmath Kumar Giri
7. Sibanarayan Sarangi
8. Sanjaya Kumar Khuntia
9. Shambhu Kumar
10. Guru Dutt

2000 batch:

1. Arun Kumar Tripathy
2. Chitaranjan Mohapatra
3. Rabindra Kumar Patra
4. S. Sunil Kumar Rao
5. Purusottam Behera
6. Laxmi Kant Gouda
7. Prasanjeet Padhy
8. Krushna Kumar Nayak
9. Shakti Prasad Patra
10. Lalatendu Pattnaik

Teaching Assistantship

NIST provides Teaching Assistantship of Rs. 600.00 per month to all selected students of every batch every year based on merit. This year the following students of 2003 batch have got Teaching Assistantship. They are Hrushikesh Mukherjee, Upasana Panda, Swagatika Panda, S Satapathy, Rakesh Basanta Parida, M Das, Amrita Sahu, Madhulika Kumari, K G S Senapathy, Debashis Sahu and Biswajit Mishra.

We Welcome You....

We welcome **Dr Sukanta K Tripathy**, to our NIST family. Dr Sukanta K Tripathy has joined our Physics department in August, 2004. He has more than 12 years of teaching experience. Dr Tripathy did his Ph.D in Physics from Berhampur University and after that he has worked in Ganjam College for more than 5 years and JITM, Paralakhemundi for 7 years. He has published many research papers in various Conferences and Journals of International repute. His research interests in Holography, Optical Bistability & Fiber-optics.



NISTians welcome **Ms Trupti Mund** who joined us on July 19, 2004 in the department of English. Ms. Mund has a brilliant record throughout her academic career. After completing her

graduation from DAV College, Koraput, she got admitted to Ravenshaw college for MA in English. Then she completed M.Phil from Berhampur University under the guidance of Prof NSR Ayenger. She also got her B.Ed degree from Allahabad University. She is also one of the active members of the NIST editorial team for the *NISTian*.

Mr. Debananda Kanhar joined in our Computer Science & Engineering department in August, 2004. Mr Debananda has a M.Tech in Computer Science from Indian Institute of Technology, Kharagpur.



His research interests are in *Optimisation and Web Designing*.

Mr. Ajay Kumar Rath joined us in September, 2004 in the dept. of Humanities & Management. Mr Rath is an MSc in Electronics, Berhampur University, and MBA in Marketing from Berhampur University. He has 5 years of teaching experience as a faculty at JITM, Paralakhemundi. His research interest sare in Operation Research and Production.



Mr. Debashisha Jena, joined in the Electrical Engineering Department on August 14, 2004. He is having more than 6 years of teaching experience. He has a M.Tech from UCE, Burla. He has a substantial teaching experience in many engineering colleges. His research interest is in Power System.



NISTians welcome **Ms. Roshni Rani Patro** who joined us on July 19, 2004 as Jr. Faculty, **Mr. Asish Kumar Sahoo** who joined us on July 19, 2004 as Jr Faculty, **Ms Sasmita Padhy** who joined us on September 1, 2004 as Jr. Faculty, **Ms. Ipsita Mishra**

who joined us on September 1, 2004 as Jr. Faculty, **Ms Nubita Bishoyi** who joined us on September 1, 2004 as Jr. Faculty and **Ms Monalisa Bhuyan** who joined us on September 6, 2004 as Jr. Faculty. We also welcome **Ms Shivani Nanda** and **Ms Rashmita Jena** who joined NTCS in the last month. We welcome **Mr. Satyabrata Das** who joined us on July 19, 2004 as Placement Assistant.

We welcome our administrative staff: **Mr Santanu Jena** who joined us on August 2, 2004 as Office Assistant, **Ms. Soumya Sucharita Mudali** who joined us on August 18, 2004 as Office Assistant, **Mr. Krushna Ch Panda** who joined as Hostel Caretaker of H#6, **Ms. Rasmita Choudhury** who joined on August 16, 2004 as Hostel Caretaker of Hostel Sagar, **Mr Duryadhan Roal** who joined us on August 18, 2004 as Bus Helper, and **Mr Pramod Behera** who joined us on August 4, 2004 as Security Guard. Wish you all the best.

NCC at NIST

National Cadet Corps (NAVAL WINGS) has started its activities in our Institute. Mr. Santanu Mukerji has been appointed as an Associate Naval Officer (ANO) from our college. At present our total strength is 20 students- who are from the 2003 and 2004 batches. NCC is a part of our Students Activities Centre (SAC).

Monsoon Cricket Match

The monsoon cricket match was played among all the disciplines of the 6th semester (2001 batch) and NIST Staff and Faculty. The Final match was played between IT Vs. EC. IT won the match and received a prize worth of Rs. 1000/- and EC received the runners-up prize of Rs. 500/-. Our Director Prof. Sangram Mudali distributed the prizes to the Winners and runners Up.

Cricket: DIRECTOR XI Vs. IT(6th Sem)

After the Monsoon Cricket Match our Director declared one more Cricket match with Director's XI to prove the best team at

NIST. In that match, Director's XI won the toss and elected to bat first. The top scorers were Vinay Ku. Das (38) and Pallav Kar(26) of the Director's XI and a target of 107 runs was set for the IT team. But the IT team crossed the target in just 8 overs and won the match easily. But who will forget Dr. Saroj Meher's amazing catch and also our Director Sir's bowling which got him 2 wickets!

Dr Reddy's Party!

A triple celebration was held on August 15, 2004 at the OCTAGON, NIST. The grand party was thrown by our Deputy Director, Dr Ravi P Reddy for celebrating the 57th Independence Day, the establishment of Hyderabad College of Aviation Technology, Hyderabad and the birth of his identical twins - *Harsha* and *Bheema*. All staff and faculty members of NIST with their family members joined the get-together and enjoyed to their utmost on that day.

Director's party at Gopalpur-on-Sea

A party was thrown by our Honourable Director Mr Sangram Mudali on August 28, 2004 at Hotel Sea Pearl, Gopalpur-on-sea. Faculty of NIST alongwith their family members had joined the party on Saturday night to have a relief from the daily schedule of hard work. The eye-catching item on that day was the magic show performed by Dr D K Rao, a renowned magician of Berhampur which entertained the children as well as others. It was followed by the songs of Mr Sagar Sikdar and Mrs. Mohua Mallick. We are thankful to Prof Arun Patnaik who organised this program.

It was a wonderful evening at NIST!

Geet Sandhya, a well-known and popular band of Orissa, presented us with a memorable evening on August 14, 2004. The NIST campus was vibrant to the songs of *ekda..ekda* or *kantaa laga*. Almost all the 300 chairs were vacant...because participants were busy in dancing. Faculty members also joined with students. Thanks to our SAC coordinator **Mr Vinay Das** for organising this wonderful event.

Fitness camp for faculty and staff

The camp was organized by Dr Ravi P. Reddy and Mr Vinay Das on July 30, 2004, at Octagon. Dr Ravi Reddy demonstrated some free hand exercises and all the participants followed him. Finally Mr Vinay Das showed some useful *YOGA Asanas*. Many faculty & staff attended the camp.

An emotional evening with the outgoing batch of 2000-2004

All the staff and faculty members of NIST interacted with the students of the outgoing batch of 2000-2004 at the NIST Rock Garden on August 13, 2004 evening. At the

start of the program our Director, Dy Director, Dean and other senior faculty members were entertained by the students. Emotions came flowing as each student recalled his or her memories at NIST. Each student was presented with a NIST memento. The Farewell Dinner held amidst the salubrious gardens of NIST was enjoyable.

Independence Day celebrated at NIST

The 57th Independence Day was celebrated by NISTians at NIST campus on August 15, 2004. The National Flag was hoisted at 8AM by our faculty members and staff.

News from ISTE Students Chapter

- **Mr. B. K. Dash** has been appointed as the faculty advisor to the ISTE Students Chapter. On 21st August, the ISTE Students meeting was held in the presence of ISTE Faculty Advisor Mr B K Dash and our Dean, Dr Ajit K Panda. In this meeting the office bearers of ISTE Students Chapter 2003-04 were present along with student members. The selection of office bearers of ISTE Students Chapter 2004-05 was carried out and the new appointees are: Sudeep Misra as President, Varun Kumar Sahu as Secretary and V. Aswini Kumar as Treasurer. The committee members are Abhinandan Das(ECE, 6th), J. K. Sagar(ECE, 6th), Abhijit Mohapatra(IT, 6th), Padmaleena Kabita(IT, 6th), A. Amar(CS, 6th), M. Pradipta Ku. Subudhi(ELE, 6th), Supreeti Mitra(EIE, 6th), Abhishek Sekhar Choudhury(ELE, 4th), Kamlesh Parida(ELE, 4th), Richy Yati Mishra(ELE, 4th), Preeta Mohanty(EIE, 4th), Rakesh Parida(CSE, 3rd), Tayoparna Mishra(EIE, 3rd), Ritesh Kumar Dash(IT, 3rd), Reena Sahu(IT, 3rd), Amit Kumar Das(ECE, 1st), Nagmani Kumar(ECE, 1st), P. Rameshwari(EIE, 1st), Saket Sinha(IT, 1st), Rudresh Pratap Chand(M.Tech), Sudhansu Sekhar Sadangi(MCA,5th), Naveen Kumar(MCA,5th).
- The charge of ISTE Students Chapter was formally handed over by the office bearers of ISTE Students Chapter 2003-04 to the newly appointed office bearers. The new office bearers of ISTE Students Chapter were welcomed. Their basic objectives were outlined and a drive to recruit more members was undertaken.
- Before ending meeting, farewell was given to old office bearers of ISTE Students Chapter.
- Starting from 26th August to 28th August a three day workshop on "Microcontrollers" was held by the Robotics Club under the banner and cooperation of ISTE Students Chapter. The main field of interest was "Microcontroller Programming and Architecture" and Mr. Bhavani Shankar Patnaik was the faculty in-charge.
- On 27th August, a written quiz competition was held for the incoming batch of 2004. Before the start of competition, ISTE's drive to stop ragging was demonstrated when the ISTE student members advised the students how to deal with ragging. Also an interactive session was held with the incoming batch and feedback was taken about the problems they were facing. The students of 2004 responded actively by coming forward with good suggestions. They were encouraged to join ISTE Students Chapter.
- On September 6, the second ISTE Students Chapter meeting was held. An outline of the future activities of ISTE Students Chapter was framed. In response to the membership drive, the ISTE student member strength has increased to more than 1000 members.

1st National level workshop on YOGA, MEDITATION & HEALTH MANAGEMENT Prof S K Upadhyay (Registrar, NIT, Rourkela)

A one-day Workshop on YOGA, Meditation and Health Management was held at Hotel Moti



on August 29, 2004. A large number of people had participated in the programme. The workshop started at 9:00AM and ended at 5:45pm. Mrs Tripura Mishra, a lecturer in history and trained Yoga teacher of International University was the chief guest. In her speech she said that she would be willing to help NIST in this field. Director of NIST, Mr Sangram Mudali addressed and welcomed the guests present over there – the distinguished guest speakers of the day were Dr P C Patra and Maharshi Dr Yogiraj. Dr P C Patra presented the inaugural speech on “Prevention of

Diabetes, Hypertension and Heart diseases”. He focused on the necessity of proper selection of food and body mass index in order to maintain a healthy life. Maharshiji continued the next long session on YOGA, Meditation and Health Management. The sessions were really very informative and interesting. Maharshi Dr Yogiraj emphasized on the importance of Yoga and Meditation. Several methods of Meditation were practically taught by Maharshiji and done by the participants. Maharshiji also discussed about different herbal medicines and its uses. Participant also consulted about their health problems with him. Mr Sai Kumar of NIST gave demonstration on YOGA very efficiently. The cooperation of NISTians made the program a great success – Ms Geetika Mudali, Prof Arun Patnaik, Mr Surya Narayan Panda, Mr Premeswar Rao, Mr Vinay Das, Ms Alka Das, Mr Subhendu Das, Mr G V Kiran Kumar, Mr Dutikrushna Panda are few among all who played an important role in making the program a success. The convenor of the program Dr Partha S Mallick took the initiative for the program and made it successful. Finally, the Placement Director Ms Geetika Mudali offered the vote of thanks. Ms. Mohua Mallick of DAV School, Berhampur, conducted the program.

Indian Achievements in USA

Dr. Ashutosh Kumar Singh

(Presently on Post-Doctoral Fellowship at University of Bristol, UK)

There are now more than 1.7 million people of Indian origin in America. They reflect the multi-ethnic, multi-religious and multi-lingual society of India. Indian Americans are represented in many fields including academics and entrepreneurs, doctors and lawyers, engineers and financiers. More than 87% of Indians in America have completed high school while at least 62% have some college education. As much as 58% of Indian Americans over the age of 25 hold a bachelor's degree or higher. High levels of education have also enabled Indian Americans to become a productive segment of the U. S. population, with 72.3% participating in the work force. Of these work force participants, 43.6% are employed in managerial and professional specialties. Technical, sales, and administrative support occupations constitute another 33.2% of the work force. The remaining 23.3% of the population works in other areas, such as operators, fabricators, laborers and precision production. More than 5,000 Indian Americans today serve as faculty members in institutions of higher education in the U. S. About 300,000 Indian Americans work in technology firms in

California's Silicon Valley. They account for more than 15% of high-tech startups in that region. The median income of Indian Americans in that region is estimated to be \$125,000 (average \$200,000) a year.

Two Indian Americans - Har Gobind Khorana of Massachusetts Institute of Technology and late Subrahmanyam Chandrashekar of University of Chicago - have been awarded the Nobel Prize, in medicine and physics respectively. Indeed, the NASA's premier X-ray observatory was named the Chandra X-ray Observatory in honour of the late Subrahmanyam Chandrasekhar. Known to the world as Chandra, he was widely regarded as one of the foremost astrophysicists of the twentieth century. The observatory was launched into space in July 1999. Dr. Kalpana Chawla added a new chapter to the history of the Indian American community. In 1997, she became the first Indian or Indian American to fly in the US space shuttle. She was part of the Space Shuttle Columbia Flight STS-87. The estimated annual buying power of Indian Americans in the United States is around \$ 20 billion. Based on the count of the 2000 Census, there are 1.7 million people in the US who identify themselves as Asian Indians or Indian Americans -- first- and second-generation immigrants or those whose ancestors migrated to the US from India. According to University of California, Berkeley Study, about one-third of the engineers in Silicon Valley are of Indian descent, while 7% of valley high-tech firms are led by Indian CEOs. Some successes are well known, such as Vinod Khosla, co-founder of Sun Microsystems, and Sabeer Bhatia, who founded HotMail and sold it to Microsoft for \$400 million. The number of Indian American New Economy millionaires are in the thousands. Massachusetts' Gururaj Deshpande, co-founder of a number of network-technology companies, is worth between \$4 billion and \$6 billion. (source: hindunet.com).

Simple vs Real Friendship

G V Kiran Kumar

A simple friend has never seen you cry.

A real friend has shoulders soggy from your tears.

A simple friend doesn't know your parents' first names.

A real friend has their phone numbers in his address book.

A simple friend brings a bottle of wine to your party.

A real friend comes early to help you cook and clean.

A simple friend hates it when you call after he has gone to bed.

A real friend asks you why you took so long to call.

A simple friend seeks to talk with you about their problems.

A real friend seeks to help you with your problems.

A simple friend wonders about your romantic history.

A real friend could blackmail you with it.

A simple friend, when visiting, acts like a guest.

A real friend opens your refrigerator and helps himself.

A simple friend thinks the friendship is over when you have an argument.

A real friend knows that it's not a friendship until after have had a fight.

A simple friend expects you to always be there for them.

A real friend expects to always be there for you

A simple friend will read and throw this letter away.

A real friend will keep sending it until he's sure it's been received

Research and Development

Conference papers

1. **J. Mohanty, R. Mishra and A.K. Patnaik**, "Dynamics of emerging Trends in telecommunication Technology in a Liberal Economic World, "Presented by J. Mohanty at International seminar on Building Global partnership in Emerging Areas on 11th August, Bhubaneswar, organised by Regional College of Management, Bhubaneswar.

ISTE Lecture Series.....

- **Dr Subhas Bose**, Scientist, Microelectronics Group, CEERI, Pilani has recently visited NIST. Presently he is supervising two M.Tech students of NIST for their one year project. He delivered a lecture on "Recent Trends in VLSI Technology" on behalf of NIST's ISTE student chapter. All the ISTE members and other students, faculty members attended the lecture.
- **Mr Asit Dash**, System Administrator, PentaSoft, Chennai, delivered a talk on IBM Main Frame at Seminar Hall on July 30, 2004. The final year and 3rd year students were present in the seminar.
- **Prof D Mukhopadhyay** of Electronics and Telecommunication Engineering, Jadavpur University delivered a Seminar on "Electronics education in India: a Perspective" on September 14, 2004. Our Director Prof. Sangram Mudali introduced Prof Mukhopadhyay to the audience. The ISTE and IEEE student and faculty members, advisors of ISTE and IEEE coordinators, Mr B K Dash and Mr Rowdra Ghatak respectively, attended the seminar.

Our Student Representatives

Padmaleena Kabita, Priyadarshini Panda, Sudhansu Sekhar Sadangi, Vivekananda Dora, Rohan Gupta, and Arun Reddy.

Student's Corner

Do U Know??

Olympic games – when and where?? Abhishek Shekhar Choudhary, 4th Sem.

ATHENS	6 th April to 15 th April, 1896
PARIS	14 th May to 28 th October, 1900
SAINT LOUIS	1 st July to 23 rd November, 1904
LONDON	27 th April to 31 st October, 1908
STOCKHOM	5 th May to 27 th JULY, 1912
CANCELLED DUE TO FIRST WORLD WAR 1916	
ANTWERP	20 th APRIL to 12 th September, 1920
PARIS	4 th May to 27 th July, 1924

AMSTERDAM	17 th May to 12 th August, 1928
LOS ANGELES	30 th July to 14 th August, 1932
BERLIN	1 st August to 16 th August, 1936
CANCELLED DUE TO SECOND WORLD WAR,	1940
CANCELLED DUE TO SECOND WORLD WAR	1944
LONDON	29 th July to 14 th August, 1948
HELSINKI	19 th July to 3 rd August, 1952
MELBOURNE	22 nd November to 8 th December, 1956
ROME	25 th August to 11 th September, 1960
TOKYO	10 th October to 24 th October, 1964
MEXICO	12 th October to 27 th October, 1968
MUNICH	26 th September to 11 th November, 1972
MONTREAL	17 th July to 1 st August, 1976
MOSCOW	19 th July to 3 RD August, 1980
LOS ANGELES	28 th July to 12 th August, 1984
SEOUL	17 th September to 2 nd October, 1988
BARCELONA	25 th July to 9 TH August, 1992
ATLANTA	19 th July to 4 th August, 1996
SYDNEY	15 th September to 1 st October, 2000
ATHENS	13 th August to 29 th August, 2004

A request to all human beings Neeraj Prasad, 3rd Semester

Mighty winds blow over the ocean blue.
 Sand storms torment the deserts too.
 Trouble comes. Trouble goes.
 Neither the ocean nor the desert bows.
 Sorrows and joys are a part of life.
 Only death will ever end this strife.
 Do what you can, do what you feel.
 Even though victory may not always come under your heel.
 You had come with nothing and will go with the same.
 Leaving behind a few memories and probably a name.
 To this world, only one contribution you can give.
 Improve yourself and thus make it a better place to live.

Beauty Within Sumani Mishra ELE, 4th Semester

Beauty cannot be described or defined. It has to be experienced to be known. One cannot, however, fail to notice certain characteristics of beauty, essential elements which exist in all that is recognized as beautiful. Every object of beauty embodies a certain order, which is not the mechanical or extraneous order displayed in such things as a well-made machine or a neatly arranged row of objects, but is an inherent order, inextricably related to the sense of beauty. This is the order noticeable in a beautiful flower, the design of which is a harmony of colour and other attributes. Harmony, rhythm, balance, proportion and symmetry are all forms of order and components of beauty. In the beauty of music and the harmony of sounds, it is well known that there is a foundation of right proportions, mathematical in nature. That is to say that without that basis of order, there cannot be concord or harmony in the sounds, nor music. Buildings which have struck generations of men as being extraordinarily beautiful, like the Parthenon and Taj Mahal, owe their splendor not to intricacy of ornamentation visible, their simple forms appear in exquisite beauty, because the proportions are perfect. Proportion connotes order.

Beauty is not in the museum, in painting, in statues, or listening to a concert; beauty is not in a poem or in the lovely sky of an evening; or in the light on the water, or in the face of a beautiful person or in a building. There is beauty only when the mind and the heart are completely in harmony and that beauty cannot be gotten by a shallow mind that is caught in the disorder of this world.

Future Technology

Collected by Raja Reddy

CDMA-GSM-GPRS Combo Chip

Qualcomm has developed an integrated circuit (IC) that includes GSM, CDMA & GPRS technologies all in one chip. The company is working with mobile phone manufacturers for integrating these chips into their mobile phones. Enhanced with multimode & multifrequency capabilities, these mobile phones will work in GSM, CDMA & GPRS networks. Presently, GSM mobile phones don't operate in CDMA networks. Entry-level versions of multimode phones will be available in a year or two.

IPv6 to debut in Japan soon

Internet protocol version 6 (IPv6), the next generation network standard, allows virtually unlimited number of internet addresses, so every home appliance or device can have its own address. This will allow smooth transfer of large volumes of data between devices. The networks will be simpler & efficient than current networks, which allow for only 4 billion addresses. The IPv6 capability will depend on 'Cell', a powerful microprocessor being developed by IBM, Sony & Toshiba. The Cell will be upto 10 times more powerful than conventional chips & able to transfer large chunks of information through the network. It will power the next-generation PlayStation game console (which is likely to double as home server) & digital home electronic gadgets. Japan is a forerunner in IPv6 introduction, with IPv6 devices likely to unveil in the country later this year. NTT Communications & KDDI, Japan's major telecom carriers, claim their IPv6 networks are ready with trial services.

Superconductivity found In diamond

A Russian-American team has discovered superconductivity in a boron-doped, diamond-structured carbon material. The material synthesized at very high pressures & temperatures & fabricated in Russia, was brought to Los Alamos National Laboratory, where superconductivity was discovered. The development may open new diamond-based device applications & even suggests that superconductivity in silicon or germanium, which also forms in the diamond structure, may be possible.

Quantum Cryptography

Quantum cryptography has emerged from the laboratory into the real world. Using properties of quantum physics, the technique encrypts data with keys that reveal whether they have been intercepted or tampered with. Encryption usually involves scrambling data with long numeric keys that stop other people from reading it. The information inside the message is effectively kept secure because of the time it would take an eavesdropper to sort through all possible keys used to scramble the data. But quantum cryptography scrambles data in a different way by using the strange properties of the quantum world to guarantee that keys have been swapped securely. Information about the key is encoded onto a single photon of light. Quantum physics guarantees that the properties of the photon will change if anyone intercepts it and tries to read the information of it. Once two parties have swapped a key that they know to be safe, they can be sure that the messages they are sending to each other are secure.

(Source: EFY, June, 2004)

IBM Rational Software University Relations Program at NIST Software Engineering for Educational Development (*Right Tools. Best Practices. Brilliant Minds*)

Indraneel Mukhopadhyay

As NIST prepares students for career as software professionals, it moves a step closer to address the imperatives of development - speed, software quality and lifecycle predictability through state-of-the-art tools, technologies and best practices. Never has software been more crucial to business success, and this translates into strong demand for software professionals with experience in advanced software development tools, technologies and practices. Yes the software we are talking about is Rational Rose.

Working with the educational community, IBM Rational Software has created a new worldwide program especially for educational institutions called the IBM Rational University Relations program. The IBM Rational University Relations program helps educators and their students stay at the forefront of advanced software development techniques using the open and extensible IBM Rational platform for software development. Through this program, educational institutions can integrate IBM Rational's market – leading software development tools into their education courses and students can employ IBM Rational tools to complete course-related research.



IBM Rational has long played a leadership role in the software development community and has actively collaborated with other industry experts to advance the practice of software development. The IBM Rational University Relations program represents IBM Rational's long-term commitment to extending its leadership focus to software educators worldwide.

The IBM Rational University Relations program helps educators by providing:

- Access to market-leading IBM Rational tools and technologies to enable a rich teaching environment
- In-depth instructor and student course materials that make it fast and easy to teach
- The IBM Rational tool set
- The ability to share research results and original papers with an extended online IBM Rational customer audience as well as other educational institutions*
- Access to an online community of other IBM Rational tools users and other educational institutions worldwide

The IBM Rational University Relations program provides the right tool set to help students:

- Build required skills for future career success and gain hands-on experience with IBM Rational tools
- Utilize the right tool for the task when completing assignments, course-related research projects and original papers.
- Publish original high-quality research projects and original papers through IBM Rational online communities

NIST joins the list of prominent educational institute like IIT's, ICFAI, Jadavpur University to name a few, which has come under the IBM Rational University Program giving its student a greater advantage to face the world. NIST started of the relationship program with a two day in-house training program at NTCS for their own faculty members and then followed by two day workshop for sixteen participants (faculty members) held by IBM trained

instructors at the college campus. During the two days the participants came across the Rational Rose software, understood how to do requirement analysis, how to develop UML diagrams in Rose and also they came to know the Rational Unified Process. The workshop was a two-way interaction where the participants also interacted with the instructor.

Workshop on Design with Microcontrollers

M. Manoj Kumar

NIST Robotics Club along with ISTE student's chapter organized a three Days Workshop on DESIGN WITH MICROCONTROLLERS from August 26 – 28, 2004 at NIST campus. Microcontrollers with built-in peripheral functions (such as PWMs for Motor Control or UPS, interface for Quadrature Encoders, Frequency measurement, Serial ports, 10-bit 8-channel ADCs, Digital I/Os, EPROM, RAM etc.), and lower power consumption are very popular and have drastically altered the economics of Digital System Design. The low cost, small size and programmability make them suitable for an enormous number of applications in products and systems like fuzzy logic controllers, industrial automation, burglar alarms, home appliances etc. 8-bit and 16-bit Microcontrollers are widely used in industrial applications. A designer can select from a wide range of Microcontrollers such as 8-bit Microcontrollers for simple applications to 16-bit Microcontrollers for complex applications. For these reasons the study of 8-bit & 16-bit Microcontrollers and their applications in system design has assumed an important place in engineering and applied sciences. Keeping this in mind, this module was structured to give an exposure to different aspects of 8-bit Microcontroller based System Design. Mr. B. S. Pattanaik and myself conducted the programme. On completion the participants learnt about

- Microcontrollers Basics and their potential applications.
- Intel 8051(8-bit) Microcontroller architecture, programming and hardware interfacing.

Emphasis was given to design exercises and problem solving skill development through practical sessions so as to maximize the participants engineering and design skills and thereby becoming successful Microcontroller Designers.

Alumni Page

Date: Tue, 10 Aug 2004 10:09:00 +0100 (BST)

From: sarojkanta nayak <saroj_kantanayak@yahoo.co.in>

To: Ajit Kumar Panda <akpanda62@hotmail.com>

Subject: RE: M.Tech Admission

Dear Sir, I am Saroj Kanta Nayak, one of the students of your GATE coaching centre at Sahid Nagar. Sir I am really happy to inform you that I have already got a seat at National Institute of Technology, Silchar, ASSAM for M.Tech. I am confident about the success of your institute. NIST is doing a good job by providing the GATE Coaching at BBSR, Thanking you, wishing a bright future of your institute - **Saroj**

Date: Fri, 6 Aug 2004 00:41:25 -0700 (PDT)

From: Umakant <pumakantsenapati@yahoo.com>

To: niste_news@yahoo.com

Subject: Oracle Certification

Sir, I would like to appreciate the untiring efforts by the staff of NIST for the Summer Training Programme on "Introduction to Oracle 9i:SQL". It was due to their valuable

guidance and intensive training structure I am able to secure 93% (53/57) in the Oracle Certification. The experience at NIST is a golden memory for me, ever to be treasured. Looking forward for more vocational training programs in your revered organisation. Thanking you and your NIST. Yours Sincerely, **P Umakant Senapati, 2nd Year, Electrical Engineering, UCE, Burla.**

Date: 11 Sep 2004 06:24:29 -0000

From: "arun kumar tripathy" <akty2003@rediffmail.com>

To: vinay_nist@yahoo.com, skpanigrahi2001@yahoo.com, psmalllick@yahoo.com

Subject: from Arun

Dear sir, Hope you have a nice time there. Our training program is going hard. Now we are learning a great deal of programming but with a different twist. In college we never bothered about memory and speed but here even one bit of extra memory and one error may lead to loss of thousands of dollar as your competitors are eyeing on you. So lot of extra things has to be taken care of. We are learning this. But whatever the difficulty may be but we are so accustomed in NIST that this 10-12 hours of training is making us more productive. Sir what about college. What activities are going on there. My new address is, **Waiting for your mails...With regards, Arun, Jataayu Software (P) Ltd., Bangalore. Flat No. 3076, Block - 8th, Janapriya apartments, Allallasandra Bellary Road, Bangalore- 560 065.**

Person of the Month

AMAR BIKRAM SAHOO – the name that brings a silver lining at the end of the month.



Yes, our Accounts Officer, is the Person of this Month. Mr Amar Bikram Sahu hails from Cuttack and is the 2nd son of Mr. Gandharb Charan Sahoo and Mrs. Bimala Sahoo. He completed his schooling from Janata Bidhyaptha, Kusumpur and in 1990, he did his graduation from Nimapara College, Puri. After graduating in Commerce he joined in Bachelor of Computer Application (BCA) Course and successfully completed it in the year 1997. He worked for more than 5 years in Hotel Meghdoot, Bhubaneswar as an Accountant and after that he

joined NIST in December 15, 1997. He is also one of the key member of NIST Volleyball Team. He spends his free time playing Table Tennis, Billiards, etc. He got married to Ms Sandhyarani Sahoo of Jagatsingpur in the year 1996. He is blessed with one son, Anshuman Aryaprakash who is studying LKG in Berhampur.

Career Corner

Knowledge Teasers

Kushal Bhut & Manmit Singh, Alumni(2000 batch)

1. For which corporate *Carolyn Davidson* designed the logo for \$30 while she was a student in Stanford University?
2. In Greek myth, which race of giants had a single eye in the middle of their foreheads?
3. On which mountain did Moses receive the Ten Commandments?
4. If Thursday is day of Thor, whose day is Wednesday?
5. Who gave David a sword and armour to fight Goliath?
6. What is the Decalogue?
7. Sean Connery was the first. Who was the second actor to play James Bond?

8. Six actors have played James Bond so far. Four of them are Sean Connery, Roger Moore, Timothy Dalton and Pierce Brosnan. Who are the others?
 9. Which Indian sportsman has featured in a Bond movie?
 10. What was precipitated in 1914 by the assassination of Archduke Ferdinand of Austria?
- (Send your ANSWER by October 10, 2004. Names will be published in the next issue. Don't forget to rate yourself?? If you can score 8 or more, you are *Excellent*, if it is 5 – 7, you are *Good* and 1 – 4 is *Fair*).**

(Among the responses received no one was able to provide all the 10 correct answers. Answers with Questions are given below).

1. Which company started as a wood pulp mill and became the mobile industry giant(Nokia).
2. Which refrigerators has been named after a Scientist?(Kelvinator)
3. Whose tagline is "Work less, Do more"?(Microsoft office)
4. Which computer major's tagline says 'Invent'?(HP)
5. Which is the India's oldest newspaper that is still being published?(Mumbai Samachar)
6. According to the recent globalization index (2004) of management consultant AT Kearney, which country is rated as the "most global nation"?(Ireland)
7. Which US state canceled an outsourcing contract that was already awarded to TCS?(Indiana)
8. Who said 'I have done more than anyone else to change the face of mankind'?(King Camp Gillette)
9. In 1880s a person called Richardson sold a ointment in US & named after his son-in-law. What?(Vicks)
10. This brand manufactured by Kazuo Tazima gets its name from three words – Machine, Instrument, and Optical. Which brand?(Minolta).

Do U Know?

Tata Consultancy Services would set up a development center at Gandhinagar, Gujrat. This was announced by TCS Managing Director S Ramadorai after a meeting with Chief Minister Narendra Modi. The center will be established at the Infocity in Gandhinagar and spread over 20 acres, they added.

Question of the Month

Do you think America's War on Terrorist succeeding? YES/NO

Send your answers before 10th of next month with a short reason to the Editor at niste_news@yahoo.com. Results will be published in the next issue.

The Question of the last month was " Should the bright Engineering students opt for higher education?" We have got good response this time. Here are some of the responses...

From: "NEHA SRIVASTAVA, 4th Semetser" <neha_2s@yahoo.com>

Yes, bright engineering students should definitely opt for higher education. Learning is a never ending process. Higher education will give them opportunity to enhance their knowledge and to do better in their respective fields. In future after higher studies they can even do research work etc., which would be a contribution to the technological advancement and hence to the national development.

Sanjitraja mIshra<sanjit2k4@rediffmail.com>

Yes, Engineering students should opt for higher education. After completing higher degree, there is a good chance for getting better jobs. In a recent survey, it is shown that more IITians are going for higher studies after pass out. They think it is an essential prerequisite to get the best jobs. Now a days, companies are looking for not only engineers but also technical managers. This is an another reason to prefer higher education.

Current Affairs

Vivekananda Dora

Foreign trade policy

New Delhi, 1st September: Commerce Minister Kamal Nath came out with a comprehensive foreign trade policy that unshackles trade from controls to push up merchandise and service exports to \$300 billion by 2009. It's main features are:

- massive push to exports to garner 1.5 % of world share.
- FDI permitted upto 100% to develop free trade and warehousing zone.
- to set up biotechnology park.
- duty free import of capital goods under export promotion schemes for agricultural sector.

TISCO acquires Singapore Natsteel

Mumbai, 17th August: In a major acquisition abroad and as part of its global incentives Tata Iron and Steel Company Ltd. signed an agreement to acquire the steel business of Natsteel Ltd of Singapore for Rs. 1313 crore, which would enable the Tata group company access to the Asian markets.

Russia mourns tragedy

Besian, 5th September: Russia was plunged into mourning at the end of a three day school siege which left 322 children and adults dead, and many of the 1000 hostages lying injured in hospital. For more than 52 hours, hundreds of children and teachers had been held captive by armed militant guerrillas, suspected to be Chechan rebels.

Bush promises to visit India if reelected

Washington, 2nd September: Enhancing relations with India including a possible diplomatic visit, will be high priority for President George Bush if he wins a second term. Bush representing Republican party recognises India as an emerging great democracy and that US should engage with India. The Republicans are also in favour of raising the number of H1-B visas.

Inflation shoots up

New Delhi, 14th August: India's annual wholesale inflation inched up to a new three and a half year high of 7.61% in the year to July 31 on higher food and oil seed costs, adding to fears of a potential interest rate rise in near future.

Industrial growth surges 7.6% in q1

New Delhi, 14th August: Industrial production surged 7.6% during the first quarter (April-June) this fiscal against 5.7% last fiscal, driven by strong manufacturing growth. Consumer durable also grew 14.1% in June with 0.3% a year ago.

Athens Olympics

Athens, 29th August: Starting on 13th August the Olympics, which hit headlines by its doping scandals, has ended a huge success in spite of initial worries of whether it would be organised in time or not. The Indian contingent was however a huge disappointment, as it could only manage one silver medal from *Rajyavardhan Singh* in shooting double trap event.

TCS shares soar on listing debut

Mumbai, 26th August: Shares in Tata Consultancy Services jumped by a fifth on their market debut as investors flocked to the nation's \$12.5 billion software services export industry. TCS raised \$1.17 billion in India's largest IPO.

Cartoon of the Month



Quotes about India

Here are some Quotes about India.....

We owe a lot to the Indians, who taught us how to count, without which no worthwhile scientific discovery could have been made.

Albert Einstein

India is the cradle of the human race, the birthplace of human speech, the mother of history, the grandmother of legend and the great grand mother of tradition.

Mark Twain.

If there is one place on the face of earth where all dreams of living men have found a home from the very earliest days when man began the dream of existence, it is India.

French Scholar Romain Rolland.

India conquered and dominated China culturally for 20 centuries without ever having to send a single soldier across her border.

Hu Sh ih.(Former Chinese ambassador to USA)

ALL OF THE ABOVE IS JUST THE TIP OF THE ICEBERG, THE LIST COULD BE ENDLESS. BUT,

if we don't see even a glimpse of that great India in the India that we see today, it clearly means that we are not working up to our potential; and that if we do, we could once again be an ever shining and inspiring country setting a bright path for rest of the world to follow

I hope you enjoyed it and work towards the welfare of INDIAN.

Our Success in GATE-2004








Satyabrata Pradhan	97.4 percentile (CS)	Prasanna Kr Mishra	97.51 percentile (EI)
Debijyoti Das	95.73 percentile (EC)	Jeevesh Kumar Sharma	91.51 percentile (CS)
Saroj Kanta Nayak	88.60 percentile (EE)	K Santosh Kumar	89.4 percentile (CS)
Gagan B Senapati	89.03 percentile (EI)	Kiran Kumar Patro	88.81 percentile (EE)

Premalata Jena(EE) joined IIT, Kharagpur, and **Kalyani Devi(CS)** joined JNU, New Delhi, **Sutiyadipta Samantaray(EC)** joined NIST, Berhampur for M. Tech. through selection procedures of the corresponding institutions.

GATE-2005

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For more details: Please contact Mr. B K Dash at 9437261756 OR visit the NIST Center of Excellence at Bhubaneswar or visit www.nistgate.com

