

Message from the Director

Two events, held back to back, at our NIST campus have highlighted the creative energy and the innovation of our NIST Community. The VLSI workshop demonstrated our commitment to an emerging R & D opportunity and our determination to be a part of the semiconductor industry. Having two VLSI stalwarts, Dr. Chandrashekar, Director, CEERI Pilani and Dr. C.P. Ravi Kumar, VP, Texas Instruments, on our campus was a dream come true for many. *Sankalp 2005* was a wonderful creative event. The number and scope of the events have broken the myth that today's students are all about "song, dance & fashion show". Our students organized brainware events and lively talks and panel discussion. The students of the ISTE chapter



have truly and fully fulfilled their "pledge to excel". Congratulations to all of them.

On another front, a lot of thinking is going around in the country about the future of technical education. India, as reported by the press, gives out US \$15 billion for the education of Indian students to countries such as US, Australia, UK, Spain, Russia, China, Ireland, etc., whereas its own IT industry earns only \$12 billion. So a net loss of \$3 billion to the country! Why such a large brain drain and financial drain in the area of higher education?

The lack of quality higher institutes of learning and lack of superior infrastructure has made our students outbound. The AICTE and Human Resources Department ought to make serious efforts to increase the quality and quantity of institutes offering higher technical education. The issue of attracting and retaining the highest quality faculty is of paramount importance. We have to enhance our interaction with the industry and the output of educational institutes must be in line with our national requirements.

I urge all to think about the future of technical education in our country. A workshop to be addressed by the Honorable Chairman of AICTE Prof Damodhar Acharya is scheduled to be held in January, 2006, where these inputs can be presented. Until then, I am awaiting your feedback.

November 15, 2005

Sangram Mudali

Message from the Editor

I was thinking to write something about student activities at NIST when *Sankalp2005* flashed in my mind. It was a record of a large number of participants from rest of India. Their active participation, enjoyable stay and zestful moments made this campus a *Centre for All India Engineering Students* for three days. All the Technical Workshops, Quizzes, whole night C debugging, Robotics, DJ Nite etc., – again proved that talent, discipline and right attitude are ingrained in NIST students. It is students, who have brought about this massive success. So, in celebration of their success, we have selected students as Person(s) of the Month for *NISTe_News*.

During the inauguration ceremony, the Honorable RDC of South Orissa, Mr Parag Gupta, made a significant comment that *Berhampur is a beautiful city*. This small city contains 3 good engineering colleges, 1 renowned university, 1 medical college, 3 famous pharmacy colleges, 2 law colleges, 2 engineering schools and many other Govt./Pvt. Schools and colleges. Moreover, many other attractions of eastern India like the Sea beach of Gopalpur, Hot water spring at *Taptapani*, IRE seaport and *Chillika* lake are within close distance from this city. It is a center for business of entire south Orissa. Also, I want to recollect the lecture of Mr C P Pujari, General Manager of Paradeep Phosphates, where he emphasized on "Change". In each and every organization, individuals should welcome *the Change*. He rightly mentioned that everything in the world is changing, only the constant is "Change". We have to fit ourselves in this changing world and for that we need to face and win the challenges courageously.

November 15, 2005

Partha S Mallick

Placement of the Last Month (October 15, 2005 – November 15, 2005)

Sl #	Name	Batch	Organization
1	Samikhya Dash	M.Tech (2003-05)	IBM Global Services, Kolkata
2	Nisith Ranjan Sahoo	BE (2001-05)	US Technology, Chennai
3	Amar Andavarapu	BE (2001-05)	Infosys, Technologies, Bangalore
4	Ved Prakash Nayak	BE (2001-05)	Pinnacle Software, Bangalore
5	Abhijit Mohapatra	BE (2001-05)	Pinnacle Software, Bangalore
6	D. Sudhir	BE (2001-05)	Logica CMG

News Corner

The Toppers

Here is the List of the Toppers in the recently published University results. NISTians congratulate all of you.

Top 10 in BE (2001- 2005 batch)

Name	(Out of 4200)
1. Soubhagya Mishra(CSE)	3625
2. Biswajita Mishra(ELE)	3511
3. V. Aswini Kumar(ELE)	3437
4. Dipanwita Dash(ELE)	3432
5. Bandana Rout(ECE)	3411
6. Supreeti Mitra(EIE)	3404
7. Suchismita Pradhan(EIE)	3402
8. Sonali Mohanty(ECE)	3395
9. Durga Prasad Rath(ECE)	3374
10. Amit Kumar Das(ECE)	3373

Top 10 in M.Tech(2003-2005 Batch)

Name	CGPA (out of 10)
1. Samikhya Dash	9.05
2. Manmath Nath Roy	8.88
3. Trilochan Panigrahi	8.58
4. Debabrat Purohit	8.57
5. Prabira Ku Samanta	8.20
6. Snehaprabha Acharya	8.07
7. Meryleen Mohapatro	8.06
8. Sanjeev Ku Mishra	8.03
9. Priyabrat Pattnayak	7.93
10. Biswajit Parija	7.91

Top 10 in MCA(2002- 2005 Batch)

Name	Out of 3300
1. Prasanna Pati	2625
2. Upama Kumari	2588
3. Mohua Pradhan	2586
4. Naveen Kumar	2542
5. Santosh Ku Nayak	2476
6. Ashis Kumar Patra	2458
7. Ambika Prasad Swain	2441
8. Arindam Bose	2432
9. Radha Mohan Dash	2427
10. M. Rajendra Prasad	2423

Top 10 in 8th Sem, BE (2001-05 batch)

Name	Out of 700
1. Soubhagya Mishra(CSE)	617
2. Dipanwita Dash(ELE)	607
3. Biswajita Mishra(ELE)	599
4. Suchismita Pradhan(EIE)	593
5. V. Aswini Kumar(ELE)	585
6. Sonali Mohanty(ECE)	583
7. Tapaswini Mishra(ECE)	580
8. Suresh Ch Martha(ECE)	576
9. Amit Kumar Das(ECE)	571
10. Kuntula Keshaba Ku(ELE)	570

Top 10 in 5th Sem, BE (2002-06 batch)

Name	Out of 700
1. Neha Srivastava(CSE)	581
2. Prasanna Ku Sahoo(ELE)	577
2. Chittaranjan Prusty(EIE)	577
3. Ch. Sreenivas Rao(EIE)	571
4. Tanmay Ranjan Kar(ELE)	567



5. Richy Yati Mishra(ELE) 565

6. Sankar Ku Panigrahy(CSE) 564
6. Shant Swaroop Samal(EIE) 564
7. Sweta Acharya(CSE) 563
7. Deepika Nayak(IT) 563
7. K Someswar Rao(CSE) 563
8. Sambhuram Patnaik(CSE) 562
9. Lipsa Naik(EIE) 557
10. Sucharita Das(ELE) 556

Workshop on VLSI Circuits at NIST

A five-day Very Large Scale Integrated Circuit (VLSI) workshop was held in the premises of National Institute of Science & Technology (NIST) from October 19-23,



2005. More than 50 delegates from all leading institutes of the country and the state participated in the workshop. Honorable Vice Chancellor of Biju Pattnaik University of Technology, Prof. Omkar Nath Mohanty



inaugurated the workshop. He appreciated the growth of NIST in a short span of nine years and assured all support from BPUT to NIST in its drive towards developing quality manpower for the Indian Industry. The Honourable Guest Speakers were Dr M Chandrasekhar, Director, CEERI, Pilani, Dr.

C P Ravikumar, Texas Instruments, Prof D Mukhopadhyay, Electronics and Telecommunication Engineering, Jadavpur University, Dr Subhas Bose, Scientist, CEERI, Pilani, Dr.Bharadwaj Amruther, IISc, Bangalore, Subhankar Das and Aditya Desai, KARMIC (Karnataka Microelectronics). The workshop was organised by NIST VLSI group led by Dr Ajit K Panda and Mr M Suresh. The workshop was sponsored by VLSI Society of India (VSI) and co-sponsored by Infosys, HP, TCS, VI Microsystems, Integrated Microsystems, Mechatronics, Sagar Xerox, HCL along with some other companies.

Intranet mail service for Students

We are happy to announce that the Intranet e-mail service between faculty and staff and students is now fully operational. Students can utilize this service from the thin client laboratory at the library to send their doubts/queries/projects/assignments/etc., to faculty members as and when required. Right now, this service is now restricted to only 2002-2006 batch. Very soon it will be operational for other batches as well. Any announcement regarding examinations, projects and technical seminars will be sent to the students through this e-mail service. For any doubt, all are advised to contact **Mr Dev Padhy**, System Administrator of NIST.

Saturday Seminar Series....

Our Computer Science and IT faculty members are continuing their Saturday Seminars in full swing. This will help to improve technical skill of all faculty members, students and staff. Here is the list of Seminars held in the last month.

Date: October 8, 2005

Name	Topic
Indraneel Mukhopadhyay	Data Mining
Shom P Dash	Design Patterns
Ipsita Mishra	Monitor
Dr. Partha S Mallick	Optical Amplifiers - a key component for Optical Network

Date : October 22, 2005

Speaker	Topic
Ipsita Mishra	CPU & Processor Scheduling
Goutam Ganguly	Dead Locks
Parimal Das	Paging & Segmentation
Vijayalaxmi Cowdhury	Normalization
Sumitra Ojha	Linux
K. Laxminarayan	Trees

Record in GRE Score

Samarendra Biswal of 2001 batch has surpassed the previous record in GRE at NIST. He has secured 1420 out of 1600, which is a new record for NISTians. His score in verbal is 670 out of 800 and in written 750 out of 800. Congratulations!

NIST faculty at IIT, Roorkee

Minakshi Prasad Mishra, faculty of Humanities at NIST attended an International Conference on Commonwealth Literature from October 13-15, 2005. The Conference was organized by Indian Society for Commonwealth studies in association with Department of Humanities & Social Sciences, IIT, Roorkee. He presented a paper titled "The Maximum City and the Sophisticated Subalterns in Rohinton Mystery's *Tales from Feroz Shah Baag*". The abstract has been published in the Conference proceedings.

Training at Satyam

NIST faculty **Mr Debananda Kanhar and Mr. Pradeep K Jena** attended a training program in Bhubaneswar from November 8-9, 2005. The training program was organized by Satyam Computers to develop interpersonal skill and soft skills. The training was based on C, Networking, Data Structure and Software Engineering. 12 students from NIST who were recruited by Satyam also participated in the program.

New Batch Coordinator of 3rd Year



Dr Sukant Tripathy has now taken over the responsibility as the 3rd year Batch Coordinator. Dr Tripathy did his Ph.D from Berhampur University and

has more than 12 years of teaching experience. He 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 are in Holography, Optical Bistability & Fiber-Optics. We wish him all success.

Hostel Superintendents

Dr Purna Chandra Biswal, faculty of



Mathematics is now the Superintendent of NIST Hostel 6 situated at Giri Road, Berhampur. Dr Purna Chandra Biswal is a PhD from IISc,

Bangalore and author of two books on discrete mathematics and optimization. He worked in BITS, Pilani for more than 3 years.

Mr Gayadhar Panda, faculty of Electronics and



Electrical Engineering, has taken the responsibility of Hostel No 3 situated at Gosaninuagaon,

Berhampur. He is an ME from Shibpur BE College, West Bengal and now at the end of his PhD work supervised by Prof. Arun Panda of IGIT, Sarang, Orissa. He has already published many research papers in various International Journal and Conferences.

Mr Debashish Jena, faculty of



Electronics & Electrical Engg, has taken the responsibility of Hostel No 7 situated at Kanisi, Berhampur. He



an M.Tech from UCE, Burla and has more than 6 years of teaching experience.

TT Tournament organized by NIST

NIST has organized the Inter College Table



Tennis Tournament of Berhampur University this year. The tournament was held at NIST campus from November 22-24, 2005. Around twenty different colleges



participated in this tournament. In the final boys section, GIET, Gunupur won against MKCG medical college, Berhampur, by 3-1 and in the final girls section, Chatrapur Women's College won against NIST, Berhampur. All the trophies and prizes were distributed by our Placement Director Mrs. Geetika Mudali and Dean Dr. Ajit Kumar Panda. Dr. Arun Ku. Padhy, Dr. Partha .S. Mallick, Mr. Indraneel Mukhopadhyay, Mr. Debanand Kanhar and Mr Amar Bikram Sahoo of NIST officiated all the matches.

IT Olympiad - 2005

The 4th Information Technology Olympiad Test was organised at NIST campus on August 08, 2005. Around 67 NISTians from different semesters appeared for the test. Rakesh Parida of 7th Semester and Ashim Ghosal of 3rd Semester bagged the 6th and 7th positions respectively. Congratulations.

Parasailing - 2005

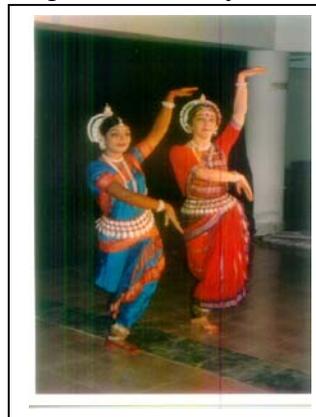
It was a great feeling of flying like a bird. Our Students Activities Center organised the



Parasailing-2005 at the airfield ground near Berhampur University. Around 187 participants including students, faculty and staff participated in the parasailing event. It is really inspiring that 47 girl students did their parasail successfully.

SPIC MACAY at NIST

The SPIC MACAY chapter of NIST organizes functions every year at NIST campus. This year, one concert was



organized on October 1, 2005. The artist was ILEANA CITARISTA, an Italian, who is a PhD in Eastern Mythology. She was involved in Indian dance after years of experience in the

traditional as well as experimental theatre in Europe. Her mentor in the Odissi dance is *Guru Padma Vibhusana Kelucharan Mohapatra*. She is equally well versed in different postures of the Chhau dance of Mayurbhanj, Orissa which she learnt under the guidance of Guru Shri Hari Nayak. She has obtained the title of Acharya from the Sangeet Mahavidyalaya of Bhubaneswar, Orissa. She has her own Institute named *Art Vision* at Bhubaneswar. She is imparting training in *odissi* and *chhau* dances there.

A Letter from Italy

From: Indranath Bhattacharyya
 <indranath_bhattacharyya@yahoo.co.in>
To: smudali@hotmail.com
Subject: Indra
Date: Tue, 25 Oct 2005 21:24:02 (BST)

Dear Sir, I am writing to you from Trieste, Italy. I have got a scope to visit in the High Energy Physics section, ICTP, Trieste, Italy for two months. It is completely funded by ICTP including my round trip journey, food etc. It is very nice place and I was really spellbound at the moment I had arrived in Venice Airport. Initially, I had some problems with food, but now it is ok. I will be here upto 15th December 2005.

Sir, it is really a very good research institute, especially in the area of Theoretical Physics. It has a very good infrastructure with a

fabulous library. Just I am seeing everything and thinking is it not possible to start a 'Theoretical Physics Section' at NIST? In India, research in 'high energy Theoretical Physics' is conducted either in the University or in the Institute under DAE (Department of Atomic Energy). As far as I know, no private Institute takes the initiative to start such activity. Why NIST cannot not be the pioneer in this respect? Not a very big fund is required to start such type of work; the only important thing is taking proper initiative and planning for implementation. Some projects can be brought from DST, UGC and CSIR like organizations to get the initial funding. Sir, please think about it. Rest are fine here. I am enjoying my work as well as Italy. Thanking you, Yours Sincerely,
Indra (Ex-Mathematics Faculty).

Alumni Page

From: Ashish Devta <Ashish_Devta@satyam.com>
Subject: sir hope u could remember me **Date:** Tue, 20 Sep 2005 09:57:46 +0530
To: "Ravi Reddy" ravipreddy@yahoo.com

Sir, Regards, Hope you can remember me. I am Ashish Devta, We met at Hyderabad couple of months back. It's been really long and I am missing my college. Sir, I always thought but never could tell you that you are an amazing teacher. You must be thinking about Java or C but I am talking about English here. I was a vernacular student. It was difficult for me to give my introduction properly when I joined NIST. One fine morning you dropped in and said "if you want to learn English learn it through movies. The day you can laugh at the comedies, that is the time you can say I know this language". Just for the record, I did that all through. The guy who could not give his first introduction selected in Wipro Spectramind and iSeva (both voice based call centers) and left and finally joined Satyam. Who could not speak properly, sang into the hearts of all juniors with the English Rap numbers. And I mailed you to say that for me, it took eight hundred movies and four long years but today I don't miss any Laugh. Regards, **Ashish Devta(26094) Software Engg., CES-PLM., Office:080-22353333 Ext. 3661 Infantry Road, Bangalore.**

RaviPreddy: Your message warmed the cockles of my heart. Thanks for your confidence in my advice.

Subject: thanks **Date:** Thu, 15 Sep 2005 11:31:39 +0530
From: "Santosh Kumar Nayak" <SantoshKumar.Nayak@igate.com>
To: "Ravi Reddy" ravipreddy@yahoo.com

Dear Sir, With love and regards, thanks for your great effort, affection and cooperation for taking us to such position. I am glad and delighted to inform you that we were able to show our potential during the training period in iGATE Global Solutions Ltd., which we have learned in NIST. We have always kept our vision and performance well. Among all other batches our Orissa batch has done extremely well (according to the trainers and other team visitors and managers), and among them the NISTians according the results in the

exams and the projects that we have done here. We occupied four out of five individual performances and all the two best projects selected from the seven are done by NISTians. What I remarked is that if a person has a greater goal and vision like a player who plays for the sake of nation, then all the smaller ones are automatically get fulfilled like individual fame, money, health, pleasure etc. Our vision was to have a better performance as a team from Orissa or as a NISTian for which we put all our efforts to show our skills that we have learned from the institute and you. All the best for the NISTians. Thanks with regards.
Santosh Kumar Nayak, MCA (NIST).

Date: Wed, 28 Sep 2005 14:57:43 +0530 From: rabindra.kumar.patro@accenture.com
Subject: Dear sir.. To: Partha Mallick<psmallick@yahoo.com>

Dear sir, I am Rabindra, ex-student of NIST(EIE, Roll No:165, 2000-2004 Batch). Presently I am working in Accenture India, Bangalore.. I would like to share a moment with you. Sir I think you don't remember me but I would say I've got my job only due to my project what I've done under your guidance. In my tech interview I was asked only about my project. As I am from EIE background I did not find any opportunity to show my talent. Here in S/W, each company is looking for EC, CS and IT students. Thanks to Accenture who gave a call to me for recruitment process. It was taking more time for me to get job. I have got offer in May but joined on 16th August. Now my training in SIEBEL (CRM) is over. I'll be doing project on Siebel from 7th October onwards. Thank you sir .. I think only because of you I am here now. Thanks and regards. **Rabindra Ku Patro.**

From:krushna rathengkrushna@yahoo.com Subject:Krushna(passout student of NIST)
Date: Mon, 3 Oct 2005 04:34:06 -0700 To: Partha Mallick<psmallick@yahoo.com>

Hi Sir, I am Krushna Chandra Rath, a 2004 pass out student of NIST, from Electronics & Instrumentation branch. Currently I am working as a software Engineer with Avaya Ind Pvt. Ltd, Pune, a US based telecom company. I hope you all are fine. I hope our e-News is also publishing well. Really our college is a good one in Orissa, or else I will say in India. Really I can't forget my college, as only for it now am in a good position in a Fortune 500 company. Thanks to my teachers, Ajit Panda, Ravi P Reddy, B.K.Dash and then to all of the staff. I liked most the personality of B.K.Dash who always maintaining a rule and discipline. Also to Ravi P Reddy, for his challenging nature and Ajit Panda, my all time favourite ELC teacher. Also I like the mixing language of Ajit Panda and thanks to you as you are my favorite Fiber-Optics Teacher. I heard about our college recruiting process is that, more than 200 guys were got selected in campus recruitment. So it's a great news. It should continue. One of my request to you is that, still I am a part of NIST. So I hope you people will not forget me. As I am not getting any news about our college, I need a soft copy of e-news always. Any way my best wishes to all of our college juniors and all of our college staff. Thanks & Regards,
Krushna Chandra Rath.

Partha S Mallick: The softcopy of NISTe_News are available in www.nist.edu/newsletter.

Date: Sat, 12 Nov 2005 17:54:47 +0500 (IST) From: mohantysonali84@sify.com
To: "G V Kiran Kumar" <gvkirkumar@indiatimes.com> Subject: sir, sonali here

Respected Sir, I am Sonali here. How are you? Now I am in Mumbai. I have completed one and half months general training. From Monday onwards we will be on technical training. I am in SAP. In the last one and half months training we were taught subjects like software engg, RDBMS, SQL, SSAD, Software testing, data structure and many more. What about NIST? How are Amalendu sir, Ghatak sir, Suresh sir and others. Where is Srinivas sir? Now we are missing NIST a lot. While in college we used to bunk classes, bunk college also, but here we can't do that. Give me all details about my college. Hope I will get a reply soon.
 Regards **Sonali Mohanty.**

Student's Corner

Hope Smruti Sagarika, 3rd Semester

Hope to keep your aspirations high.
 Even if later you might have to sigh.
 Hope to keep your faith unwavering,
 Even if your questions go unanswered.
 Hope to keep the flame of life burning,
 Even if your turmoils have no ending.
 Hope to dream beautiful and bigger,

Even if there's a chance they shatter.
 Hope to keep up your determination,
 Even if you can't find your destination.
 Because its always better to have
 A reason for living, than do nothing.
 So never stop hoping, as that will keep you
 going.

SANKALP Beckons

D. Arun Reddy, CSE, 2003 batch

I can't refrain myself from not writing this article, to speak the truth actually, I thought of writing this only after brushing against "22 days to go.... SANKALP -05" at Octagon.

Well when one half of the college is already gripped in SANKALP fever and the other majority (especially First year students in an utopia state to go home) its time to ask yourself to this year's SANKALP tagline" **Pledge to Excel....**" and paradoxically hesitating to participate in the few events of their lifetime.

SANKALP events are hailed as the best to match your performances with perfection. My dear friends success begins with a fellows WILL and as the saying goes "Nothing Ventured Nothing Got ". To the organisers who must have already spent several sleepless nights right from preparing the drafts, to designing the Poster which I acknowledge to be the best among previous two years, to designing the website, postal work etc. Do carry on your good efforts.

When a task is driven by a sense of purpose, the deadlines prevent us from relaxing. The joy of sharing responsibility is immense at least for those who believe in teamwork and this is very necessary in such hotly contested race of technical events (over 2000 happening/year). An event of this magnitude where the stake of institute is at hand should be taken seriously.

I hope my message has reached to all of you and one more thing: do enlighten your experience, views, opinions and feelings regarding "SANKALP-05 "to me or any of the NISTe_News student representatives or at niste_news@yahoo.com.

Tsunami

Sumani Misra, 7th Semester

Most tsunamis occur in the Pacific because the ocean is rimmed by the Ring of Fire, a long chain of earth's most seismically active spot. Tsunami waves typically radiate out in directions opposite from the seismic disturbances. In the case of the Sumatra quake, the seismic fault ran north to south beneath the ocean floor, while the tsunami waves shot out west and east. Tsunamis are distinguished from normal coastal surf by their great length and speed. A single wave in a tsunami series might be 160 km long and race across the ocean at 965 kmph. When it approaches a coastline, the wave slows dramatically, but it also rises to great heights because the enormous volume of water piles up in shallow coastal bays. And unlike surf, which is generated by wind and the gravitational tug of the moon and other celestial bodies, tsunamis do not break on the coastline every few seconds. Because of their size, it might take an hour for another one to come.

Our Student Representatives

**Preeta Mohanty, Rohan Gupta, Arun Reddy, Rakesh Parida,
 Smruti Sagarika and Amit Kumar Dash**

Patriotism and A Perplexed Patriot Kamlesh Parida, 7th Semester

Another August the 15th comes and goes by. We enjoy our holiday in our own different ways and get on with our lives the very next day. Do we ever stop to think about what August the 15th really means? Independence Day and its meaning keep getting blurred every year. What does independence mean to the “Gen Y”? Are we any less Indian, or patriotic for that matter?

Then again who decides how patriotic we are? Who sets the standards anyway? And even if someone does try and become the regulating authority what are the yardsticks used? Dictionary says-a person who loves his country enough to *defend against enemies* is a patriot.

I keep wondering if anyone can really quantify patriotism. Patriotism is after all abstracts. Just as we can't quantify happiness or grief maybe we can't quantify patriotism at all. What is the purpose of the article you ask? Truth is I don't know and that's why I'm perplexed. I wonder why we bunk classes to watch India lose yet another cricket final. What is the feeling which compels us to keep looking for Sarabjit in newspapers? Why are we so emotional about our soldiers at the frontier? What is so inspiring about an Indian at the podium in an Olympics? And what's so special about Kashmir anyway? What would justify sacrificing thousands of lives and 2.5% of our GDP on a state which is quite insignificant in relation to revenue earned from it? Isn't everything about good Economics?

Maybe its just worthwhile spending crores on something one believes in. Crying with India on losing Vikram Batra didn't feel feminine at all. Perhaps it's okay if your heart skips a beat whenever we watch our flag waved by our cricketers in foreign lands. Perhaps it's normal if there is a funny feeling stirring up inside of you every time you hear Lata Mangeshkar sing '*Aye mere watan ke logon*'. It's not that 'uncool' to wake up early and catch the Independence Day speech. Sometimes stating the obvious is compulsory, because what may be obvious to you may be an alien concept to another person. What a pity! If only we had stated the very obvious, some of questions above would never have been asked. You may love someone very dearly. But stating your love is just as important. Ask anyone in a successful relationship how important it is to state your love and he will tell you that it makes all the difference. In our context that special one in consideration is our country. Stating our love for her may well be worthwhile.

Perhaps the underlying premise, which would justify all, the lines above can be very conveniently called “Patriotism”. Maybe we don't need to measure our patriotism and maybe the beauty of the 'mythical abstraction' lies in our inability to comprehend it.

KALEIDOSCOPE

'God moves in a mysterious way
His wonders to perform;
He plants his footsteps in the sea
And rides upon the storm.'

These words of Cowper were enlightening enough but in the context of the events of the month bygone they look all the more gruesome. The earthquake that swept us all of the ground, culminated in the demise of more than 20,000 people on both sides of the border. The agony and woe caused by the disaster reverberated throughout the world population. Being the eternal optimist, this catastrophe did have a brighter side to it. A thing which 50 years of diplomacy, whole lot of trains, buses and everything that moved under the sun, couldn't do; this quake has made it all to visible. There's isn't a soul in the world who wouldn't get goose bumps watching the people of both the war-torn adversaries commiserating each other. But looking at the other half of the world, isn't it ironical that the so called economic, social and a superpower in whole lot of other fields was on its knees pleading before the supremacy of the all mighty. Cyclone Katrina caused the loss of around 200 lives and affected the lives of millions around the globe. Talk about globalization! Now god wasn't favorable to others as well. A mere rumor was all it took to send 600 odd souls to their demise during a religious gathering in Baghdad. If you thought this column is changing itself to an obituary listing then can't help it, angel of death on overtime, I guess. There's a whole lot more to whimper about but the times had some cheers on their rolls as well.

Rakesh Parida, 5th Semester



The hottest figure around the business circles nowadays is the 8000 mark. I had predicted it in one of my previous editions. That makes me some sort of a fortune-teller. (This would have been sweeter, had I made some bucks on the Bull Run!) Everything seems sunny now with the inflation rate down by 1.01% and foreign investors seeing the brighter side of our markets. The Bull Run had actually been initiated by the confidence of a stable government which is going all guns blazing for economic reforms. The latest of these confidence building measures is one of cozying up with the European Union. Mr. Blair was in India a few fortnights ago. Apart from paying quick visits to the palaces in Jaipur, he notched up quite a few deals with Manmohan starting with the Airbus deal worth \$3m. Isn't it ironical that India is always the shopper but not the vendor in all these deals? But the bubble has somewhat seemed to deflated over the past few weeks with the Sensex now hovering over the 8200 mark. Staying with the political bigwigs, Lalu has finally something to cheer about with the announcement of polls for Bihar. About time that Governor Buta Singh was relieved because estimating from the number of accusations he had leveled against himself, he wasn't exactly on a merry go round. The games people are playing in Bihar are fitting enough to become a regular Hindi movie. Now that we have the action sequences with Mr. Ravi Shankar Prasad getting shot at, the only missing part are some dance sequences. (I hope Lalu & Rabri would be kind enough to help us with those) Talking of games, here's a game that Preeti Jain played with Madhur Bhandarkar. The whole sexual harassment thing took a new turn with Mr. Gawli the erstwhile gangster cum self proclaimed social worker joining the tea party. Though I know a pair who would never be sitting down for tea ever! The Chappell-Ganguly drama was testament enough of the flailing objective of Indian cricket. The door shown to Ganguly may be a step towards reform, though Chappell has yet to show us the colors of true success. With yet another parade of pitiful cricket they are slowly but surely are killing the game of cricket. But the same can't be said about the recently concluded Ashes encounters. Believe me, they were one of the finest battles of cricket I have ever had the privilege of watching. Unfortunately, the Super Series was something of an anti-climax. With a string of pitiful one-sided encounters, it was hardly living up to what it was initially billed out to be! (Now, what was Shoaib Akhtar doing in a World XI side?) Meanwhile Major Rathore has been winning some medals too. The same can be said about Anju Bobby George. These athletes still give me hope that an Olympic medal isn't an utopian idea. Sometimes these Indian athletes give me a feeling that their performance wouldn't do an about turn even if they are on dope. Are we Indians, the perennial under-achievers that we always prove to be? I hope not! Meanwhile Narain has dampened it for all the F1 fans. I am quite sure he is on his way out after a string of incessant failures. But Fernando Alonso having clinched the title has become the youngest champion ever, F1 has witnessed a reincarnation of Renault. Fresh is the color of the day it seems, as the youth of India if not the world begins to make substantial strides in various areas. The recently concluded Delhi Half Marathon is proof enough that India is ready for hosting as well as participating in global events. Finally the rains that lashed at our part of the world seemed to have brought that highly anticipated relief from the relentless heat. There you are, Kaleidoscope for month bygone and for months to come, taking u through everything thick and thin.

Parasailing' 2005 – Student's View

Manzar Hassan, 1st Semester, B-Tech

It was the nicest moment, which I had on 25th September. We were going for parasailing for the first time in our life. We had to reach Berhampur University ground and there we had our demonstration for parasailing. We were about 70 students. I was tied with a rope and accelerated by a jeep with parachute filled with air in my backside, the parachute starts rising swiftly in air and in a very short time, I reached at the maximum height of about 30 metres, the time span while in air was very less, it was really enjoyable to fly in air and watch the scenes from the top. Thanks to the efforts of our Yoga instructor and SAC Coordinator.

Kuasholendra Kumari, 1ST Semester, B-Tech

Parasailing held at Berhampur University ground was totally a new and adventurous experience. When I was in air, I was feeling as a bird trying to touch the sky. It always remain in my memory.

Vishesh Jha, 1st Semester, B-Tech

It was a very fine experience, I was in air and the others were below me, I enjoyed when everyone was cheering me from ground. My all time wish fulfilled - flying in the air like a bird-though for a very short span of time. Thanks to NIST and feeling bad for those who could not make it up.

Falguni Pattnaik, 1st Semester, B.Tech

Our college declared that a parasailing programme is going to be held on September 25, 2005. I participated on that programme, so many things were going on in my mind how shall I fly in the sky, etc. At last the programme started, I was given the parachute and ran behind the jeep after running 2 to 5 steps suddenly I found myself in the air at least 70 to 80 feet from the ground and, that was really a good experience for me. I remained there for 3 to 4 minutes then I returned to ground.

Abhishek Nundan, 1st Semester, B.Tech

Parasailing was organized on 25-09-2005 at Berhampur university ground by NIST, Berhampur. It was a wonderful experience. Everybody was flying at a height of about 20 meters from the ground using parachute. When my turn came, I was tied with the parachute using some belts. Then the jeep with which I was tied, just started moving and I was told to run. After that, I found myself above the ground and this was for about two minutes. I just enjoyed the moments when I was in air. Our YOGA instructor Ms. Basanti Patro had made special efforts to make our dreams come true. It was the first adventurous event in my life and that was an unforgettable one.

Future Technology

Future computers may use light instead of electricity

Using a tiny silicon device, team of scientists has successfully slowed down light to 1/300th of its ordinary speed. This device, called crystal waveguide, may help to develop future computers using light instead of electricity for communications, reported the scientists in the Thursday's issue of the journal 'Nature'. Heating the Photonic Crystal waveguide with a 2-mW integrated micro-heater, scientists could also control the velocity of light efficiently in about 100 nanoseconds. The light can be further slowed by applying an electric field to the waveguide, the 'Nature' paper said. This achievement may one day help realise the dream of building Optical Computers, said Yuri Vlasov, physicist at IBM's Watson Research-Centre.

India is becoming the center for Semiconductor Research

The semiconductor industry in India is set to take a big leap throwing open a large number of employment opportunities. The market is buoyant with more and more global players setting up shop in India. Recently, the Govt. of Andhra Pradesh signed a pact with Nano-Tech Silicon India Pvt. Ltd. for setting up a 1.2 billion Fab (Silicon Wafer Manufacturing Plant) in Hyderabad. This will be the first *Fab lab* in the country. All these developments show that players in the three areas of Semiconductor Industry - Electronics Design Automation (EDA), Chip Designing and Fabrication are making India a Semiconductor hub. (Source – *The Indian Express*, November 7, 2005)

Career Corner

Motorola Questions
Priyadarshini Panda, Alumni, 2001-2005

- | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"> 1. Write a code to reverse a string using a recursive function, without swapping or using extra memory. 2. Difference between Macro and ordinary definition. Difference between Class & Structure. 3. What is a Real Time OS? Name some. 4. Describe VRTX in few words. 5. What is deadlock? How to avoid it? What is a semaphore? 6. What exactly happens after each system call in sockets, both at client & server. | <ol style="list-style-type: none"> 7. What is the difference between widget & gadget in XWindows? 8. Tell about strtok & strstr functions. 9. C++ supports <ol style="list-style-type: none"> a) pass by value only b) pass by name c) pass by pointer d) pass by value and by reference 10. Selection sort for a sequence of N elements
no of comparisons = _____
no of exchanges = _____. |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Do U Know...

IIM-Lucknow Opens Campus in NOIDA:

The Indian Institute of Management, Lucknow (IIM-L) has inaugurated its NOIDA Campus to be known as IIM-L NOIDA with a 3-year programme for employed managers. The IIM-L initiative is the first of its kind from any IIM wherein a satellite campus has been launched.

MP Birla Memorial Award 2005: Prof. V. Radhakrishna, Prof. Emeritus, Raman Research Institute, Bangalore has been conferred *MP Birla Memorial Award 2005* for excellence in fundamental research.

Raman Magsaysay Award 2005 : Dr. V. Shanta, Chairperson of Adyar, Chennai-based Cancer Research Institute, has won the *Raman Magsaysay Award 2005* for public service in recognition of her untiring leadership of the Cancer Institute as a Center of Excellence and Compassion for the study and treatment of Cancer in India.

UK Award for Aishwarya Rai: The British Government has decided to honor film actress *Aishwarya Rai* with the *Next Step World Diversity Champion Award* instituted to honor those who have encouraged pride in being a member of the ethnic minority community.



TCS to Set up CoEs in Pakistan : Tata Consultancy Services (TCS) is setting up

Center of Excellence (CoEs) for students and corporates in Pakistan at Lahore and Karachi.

India in Top 10 GDPs: According to the data released by the World Bank on July 12, 2005, India has joined the ranks of the World's ten largest economies in terms of

Gross Domestic Product (GDP), graduating from 12th to 10th slot in dollar terms between 2003 to 2004. It is now worth \$692 billion and in the process, has overtaken South Korea and Mexico while UK has remained unchanged at fourth place. According to the World Bank which has described India as an "Asian Giant", in the past two years India's economy grown by more than 7% and has average 6% over the past decade on the back of buoyant industrial activity and massive investment.

TOP TEN ECONOMIES (GDP)

Rank	Country	GDP(in billion)
1.	USA	11,668
2.	Japan	4,623
3.	Germany	2,714
4.	UK	2,141
5.	France	2,003
6.	Italy	1,672
7.	China	1,649
8.	Spain	991
9.	Canada	980
10.	India	692

(Source: *Competition Success, Sept' 2005*)

The TOP 100 companies in India

Suman Rani Acharya, CSE Lab

NISTe-News is giving you a brief introduction about the top 100 companies in India. Students are advised to know about their product details, recruitment policy, company policy etc., from their Websites given below.

Rank 1 BHARAT SANCHAR NIGAM LTD (BSNL)

Revenue : Rs 363,030 million(2004-2005)

Chairman : Anil K Sinha

WebSite : www.bsnl.co.in

Corp. Office : Statesman House, B-148, Barakhamba Road, New Delhi , 110001

Rank 2 WIPRO LTD

Revenue : Rs 81,698 million(2004-2005) Chairman: Azim H. Premji

WebSite : www.wipro.co.in
Regd. Office : Wipro Corporation, 76-p, Doddakhannelli, Sarjapur Road ,
 Bangalore, 560035 **Fax** : 080-28440056, : ☎ 28440011

Rank 3**BHARTI TELE-VENTURES LTD**

Revenue : Rs 80,350 million(2004-2005) **Chairman**: Sunil Bharti Mittal

WebSite : www.bhartiteleventure.com

Regd. Office : Qutab Ambience (at Qutab Minar), Mehrauli Road, New Delhi
 110030, **Fax** : 011-51666011/12, ☎ : 51666000

Rank 4**HCL INFOSYSTEMS LTD**

Revenue : Rs. 77,836 million(2004-2005) **Chairman**: Ajai Chowdhry

WebSite : www.hclinfosystems.com

Corp. Office: E-4, 5, 6, Sector 11, Noida 201301, **Fax** : 0120-2550977
 ☎ : 2520977

Rank 5**TATA CONSULTANCY SERVICES LTD (TCS)**

Revenue : Rs 74,490 million(2004-2005) **Chairman**: Ratan N. Tata

WebSite : www.tcs.com

Regd. Office : Bombay House, 24 Homi Mody Street Fort, Mumbai 400001
Fax : 022-56658080, ☎ 56658282

Rank 6**INFOSYS TECHNOLOGIES LTD**

Revenue : Rs 71,296 mn, **President**: Nandan M. Nilekani

WebSite : www.infosys.com

Address : Electronics City, Hosur Road, Bangalore 560100
Fax : 080-28520261, ☎ 28520362

Rank 7**LG ELECTRONIC INDIA PVT LTD (LGEIL)**

Revenue : Rs 65,000 million(2004-2005) **MD**: Kwang Ro Kim

WebSite: www.lgezbuy.com

Head. Office : Plot No. 51, Udyog Vihar, Surajpur-Kasna Road, Greater
 Noida, UP **Fax** : 0120-2560926, ☎ 2560900/940

Rank 8**WIPRO TECHNOLOGIES LTD**

Revenue : Rs 60,750 million(2004-2005) **President**: Suresh Vaswani

WebSite : www.wipro.co.in

Regd. Office : Doddakhannelli, Sarjapur Road , Bangalore, 560035
Fax : 080-28440256, ☎ 28440011

Rank 9**MAHANAGAR TELEPHONE NIGAM LTD (MTNL)**

Revenue : Rs. 55,654 million(2004-2005) **CMD**: R.S.P. Sinha

WebSite: www.mtnl.in

Head. Office : Jeevan Bharti Building, 12th Floor, Tower I, 124 Connaught
 Circus, New Delhi
Fax : 011-23314243, ☎ 23742212

Rank 10**RELIANCE INFOCOMM LTD**

Revenue : Rs 53,870 million(2004-2005), **Chairman**: Anil Ambani

WebSite : www.relianceinfocom.com

Corp. Office : Dhirubhai Ambani Knowledge City, Navi Mumbai 400709
Fax : 022-27624213, ☎ 30373333

(to be continued....)

(Source: Electronics for you, September 2005)

Research and Development

Research paper

1. **M Reza** and A S Gupta, Steady two-dimensional oblique stagnation-point flow towards a stretching surface, *Fluid Dynamics Research*, July 8, 2005, Elsevier Science, July 2005.
2. A S Gupta, J C Misra and **M Reza**, Magnetohydrodynamic shear flow along a flat plate with uniform suction or blowing, *Z angew Math Phys*. 56(2005).

Tutorial Proposal Accepted in ICDCIT- 05

A Tutorial proposal of NIST Faculty **Dr Partha S Mallick** has been accepted by the *International Conference on Distributed Computing and Internet Technology(ICDCIT)* to be held on December 21-23, 2005 at Bhubaneswar. The title of the proposal is *Matlab – an essential Tool for Engineers*.

ISTE, IEEE Lecture Series....

- **Prof Arun Panda**, HOD, Department of Computer Science and Engineering, IGIT, Sarang, delivered a talk on September 27, 2005 on *Artificial Neural Network - an Overview* at Lecture Hall. NIST faculty & final year students attended the seminar.
- **Prof Suash Dev**, Professor of Computer Science and Engineering, NIST presented a seminar on *Genetic Algorithm* on October 1, 2005. M.Tech students, faculty members, Course Coordinators, Dean and Deputy Director attended the seminar.

Person of the Month

It is a great pleasure for NISTe_News to announce the name of **Gourav Bhuyan** and **Anurag Mohapatra**, President and Secretary of *Sankalp 2005* as the Persons of this Month who led the team of our annual techno-festival *Sankalp 2005*.

Gourav Bhuyan of 7th Semester, BE, President of ISTE Chapter of NIST is the youngest son of Mr S K Bhuyan and Mrs Rajashree Bhuyan of Cuttack, Orissa. His elder brothers Saswat Bhuyan and Saurav Bhuyan have already completed their BE from NIST. Gourav plays Football, Volleyball and he is also an athlete who represented NIST many times. His hobbies includes playing outdoor games, writing poems, listening to music and reading books.



Anurag Mohapatra, of 7th Semester, BE, Secretary of ISTE Chapter is the younger son of Prof. Jayanta Kumar Mohapatra and Dr. Kanakalata Mishra. He was born and brought up in Berhampur, Orissa and completed schooling from St. Vincent Convent School and 12th from Binayaka Acharya College, Berhampur. He is one of the many students who has been selected through campus recruitment and is due to join **INFOSYS**. His hobbies includes reading books, playing music, watching movies.



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As part of its social commitment to the people of south Orissa, NIST, a premier engineering institute of India, invites application for employment oriented training programme in the below mentioned areas, **free of cost with monthly stipend** for the students of SOUTH ORISSA only.

- ❑ **Certificate Course in Electronics Repair & Maintenance**
- ❑ **Certificate Course in Basic Computer Skills**
- ❑ **Certificate Course in Computerized DTP**
- ❑ **Certificate Course in Computer Maintenance**
- ❑ **Certificate Course in Workshop Practice(Lathe, CNC Milling, Welding, Carpentry)**

Training Programme will offer ample opportunity for employment to selected candidates

Eligibility: Passed 10th/HSC with atleast 50% marks, family annual income should be less than Rs.50,000/.

Duration: 4 Months

Stipend: Rs.800/ per month (including boarding & lodging)

Selection: Purely on the basis of merit & income criteria

Apply in a plain paper to the “Co-Ordinator(Employment Oriented Program)” at above mentioned address mentioning name, contact address, qualification details with certificates, family annual income with proof, course interested etc. by 3rd December, 2005. Program will commence from 7th January, 2006.

Sankalp-2005

The annual Technical Festival of NISTians, *Sankalp* was organised by ISTE Student Chapter from October 28-30, 2005 in a grand style. Here are some photographs...

