

### Message from the Director

The summer courses 2006 being offered by the Institute have drawn an overwhelming response of over 700 students from amongst the NIST students as well students from other engineering colleges of Orissa. From only 2 courses in the year 2001, we are now offering 9 courses, in a variety of areas such as computer sciences, electrical sciences, pre-placement courses to humanities courses. These courses entail a large amount of year round training and learning for the training coordinators and faculty and staff members involved in the courses. The syllabi of the courses are completely based on industry feedback and are designed



to leapfrog our students into the industry mainstream. The Institute has provided air-conditioned classrooms and laboratories for the successful running of the courses. The entire transport staff, facility staff and cafeteria staff have committed themselves to the successful running of the summer program. I take this opportunity to thank all involved for successfully translating an idea into a massive reality.

On a recent visit to the campus, the Hon'ble Vice Chancellor of BPUT, Prof Damodar Acharya and Registrar, Prof R. K. Mishra, appreciated the conduct of the 2<sup>nd</sup> and 4<sup>th</sup> semester examinations. The discipline of the students, the fairness of the examination procedures and the invigilation of the teaching staff came in for special praise. We thank the Hon'ble Vice Chancellor and Registrar who have taken utmost pains to emphasize the conduct of fair, transparent examinations leading to complete student satisfaction. Their vision of a strong, self-confident, disciplined, talented, hard-working, highly motivated engineer graduating from BPUT is slowly but surely taking shape.

Summer vacation is a time of R & R (rest and relaxation) for students and staff. Wish you all the best as you "Beat the Heat".

**May 15 2005**

**Sangram Mudali**

### Message from the Editor

The placement track record of NIST students of the batch 2002-2006 is the cynosure among all the engineering community of Orissa. A sizable number of over 130 students have been placed almost within two months of the start of the placement season and still more than 10 companies are yet to come. We are committed to the Herculean task of providing 100% placement to the batch. No efforts are being spared in this task as students-faculty-staff put their heads into this job.

While congratulating all the students who have already received placement, I take it as my responsibility of warning ourselves of any complacency as we rush headlong to achieve our target of 100% placement.

**May 15, 2005**

**Partha S Mallick**

### *Our Student Representatives*

Vivekananda Dora, Padmaleena Kabita, Priyadarshini Panda, Sudhansu Sekhar Sadan, Rohan Gupta, Preeta Mohanty, Arun Reddy, Smruti Sagarika, Amit Kumar Dash.



## Letters to the Editor

**From: Ms. Leela Mishra, Q-No-201-A, Sector -3,Ukkunagaram, VISAKHAPATNAM STEEL PLANT, A.P-530032(sent by post)**

Sir, I, Leela, mother of Chinmayanand Mishra who is a student of NIST 6<sup>TH</sup> semester 2002-2006 batch. Right from the joining date of my son in NIST, we have been continuously receiving NIST E-News. We are well versed with the activities of NIST through E-News, though we are staying at Visakhapatnam.

The placement of student in various companies has been increased with greater margin year after year. This was made possible due to the sincere effort of Dr. A. K. Panda and his team of Placement Dept. I aspired that my son would be placed in some good company, by seeing this trend of placement. At last my dream came true. He got selected in 'BIRLA SOFT' by the grace of God and the untiring effort of Faculty members of your Institute.

Thus, a major role was played by Pre-placement training provided by the college. This became a helping hand to the students. I wish that this trend of Placement should continue forever. May your Institute get name and fame throughout India. I wish all the success of the NISTians. Thanking You. *Leela Mishra.*

### Placement of Last Month (March 15, 2005 – April 15, 2005)

#### Batch 2002-2006

Name	Branch	Company Name
1. Aditya Annapragada	CSE	Infosys
2. Amartya Banerjee	CSE	Infosys
3. G. Shyam Sundar Rao	CSE	Infosys
4. Neha Srivastava	CSE	Infosys
5. Pallav Rath	CSE	Infosys
6. Paromita Panda	CSE	Infosys
7. Piyusa Pratap Panda	CSE	Infosys
8. Sambit P Khandai	CSE	Infosys
9. Sweta Acharya	CSE	Infosys
10. Vikas Rout	CSE	Infosys
11. Anurag Mohapatra	ECE	Infosys
12. Biplab Dash	ECE	Infosys
13. Bishnu Prasad Panda	ECE	Infosys
14. DurgaMadhab Mohanty	ECE	Infosys
15. Karthik kaligatla	ECE	Infosys
16. Subha Prakash Nayak	ECE	Infosys
17. Tanisha Sahu	ECE	Infosys
18. D Gangadhar	EEE	Infosys
19. Sashi Ranjan kumar	EEE	Infosys
20. Saumya Santosh Das	EEE	Infosys
21. Sital Patro	EEE	Infosys
22. Akansha Kumar	EIE	Infosys

23. Alok kumar Prusty	EIE	Infosys
24. Avinash Kumar Maharana	EIE	Infosys
25. Biranchi kumar Parhi	EIE	Infosys
26. Ch. S. Srinivas Rao	EIE	Infosys
27. Gaurav Mishra.	EIE	Infosys
28. Preeta Mohanty	EIE	Infosys
29. Shant Swarup Samal	EIE	Infosys
30. Anup Tripathy	IT	Infosys
31. Prerana Priyadarsini	IT	Infosys
32. Saswati Soumya Mohapatra	IT	Infosys
33. Srikumar Sahoo	CSE	TCS
34. Amiya ranjan Sahu	ECE	TCS
35. Ashok Kumar Swain	ECE	TCS
36. Aurovind Sinha	ECE	TCS
37. Pritiman Panda	ECE	TCS
38. S. Jagdish Prasad Sahu	ECE	TCS
39. Santosh k Sahu	ECE	TCS
40. Somojyoti Biswal	ECE	TCS
41. Abhiram Padhy	EEE	TCS
42. Jyoti Prakash Das	EEE	TCS
43. Kamlesh Basant Parida	EEE	TCS
44. Ravishankar Tripasuri	EEE	TCS
45. Sunkuru Amrita	EEE	TCS
46. Tanmaya Ranjan Kar	EEE	TCS
47. Hitansu Sahu	EIE	TCS
48. Nishith Patnaik	EIE	TCS
49. Bharat Bhusan Ray	EIE	TCS
50. Debasis Behera	EIE	TCS
51. Abhishek Bhattacharya	IT	TCS
52. Soumya Priyo Das	IT	TCS
53. Vikramaditya Mishra	IT	TCS
54. Janaki kumari Behera	CSE	Satyam
55. Raju Prasad Subedi	CSE	Satyam
56. Rashmita Pradhan	CSE	Satyam
57. Samir kumar Parida	CSE	Satyam
58. Sujatha Sahu	CSE	Satyam
59. Gaurab Bhuyan	ECE	Satyam
60. Nilofer Haque	ECE	Satyam
61. Rakesh kumar Padhy	ECE	Satyam
62. G. Roopesh Kumar	EIE	Satyam
63. Siva kumar Behera	EIE	Satyam
64. Janardhan Kartik Prathi	IT	Satyam
65. Lopamudra Mishra	CSE	Wipro
66. Nevadita Sahu	CSE	Wipro
67. Paulomi Mukherjee	CSE	Wipro
68. Pradip Ku. Hota	CSE	Wipro
69. Santanu Sen Gupta	CSE	Wipro
70. Saswati Jena	CSE	Wipro

71. Shankar K Panigrahi	CSE	Wipro
72. Shilpi Agarwal	CSE	Wipro
73. Vandana Mohanty	CSE	Wipro
74. Abhijit Das	ECE	Wipro
75. Anuka Bindhani	ECE	Wipro
76. Chandan Swarup Patra	ECE	Wipro
77. Dipti Ranjan Das	ECE	Wipro
78. G. Sweta	ECE	Wipro
79. Manita Sahu	ECE	Wipro
80. N. Pritam	ECE	Wipro
81. Pawan Kumar	ECE	Wipro
82. Samir K Tarei	ECE	Wipro
83. T. Som Sekhar	ECE	Wipro
84. Debasish Panda	EEE	Wipro
85. Dilip Ku. Samanta	EEE	Wipro
86. Rajashree Mishra	EEE	Wipro
87. Sumani Mishra	EEE	Wipro
88. Arnab Chakravarty	EIE	Wipro
89. Biswanath Kapuganti	EIE	Wipro
90. Debasmita Patnaik	EIE	Wipro
91. Lipsa Naik	EIE	Wipro
92. Pradyumna K Mishra	EIE	Wipro
93. Salmal Angadial Philip	EIE	Wipro
94. Bhawani Shankar Padhy	IT	Wipro
95. Manali Routray	IT	Wipro
96. Manaswini Sabat	IT	Wipro
97. Ruhi Sinha	IT	Wipro
98. Archana Sinha	MCA	Wipro
99. Abhishek Mohapatro	CSE	Birla Soft
100. Abinash Behera	CSE	Birla Soft
101. B. Ganesh kumar	CSE	Birla Soft
102. Neha Patnaik	CSE	Birla Soft
103. Prajnamaya Debadutta	CSE	Birla Soft
104. Pritiprabha P Sahoo	CSE	Birla Soft
105. Rekha Bharti	CSE	Birla Soft
106. Santosh kumar Pati	CSE	Birla Soft
107. Sourav kumar Satpati	CSE	Birla Soft
108. Aditya kumar Gantayat	ECE	Birla Soft
109. Ashok kumar Patro	ECE	Birla Soft
110. Swagat kumar Bhoi	ECE	Birla Soft
111. Varun Agrawal	ECE	Birla Soft
112. Chinmayanand Mishra	EEE	Birla Soft
113. Richy Yati Mishra	EEE	Birla Soft
114. Siddharth Mishra	EEE	Birla Soft
115. Rakesh ku Panigrahi	EIE	Birla Soft
116. Sandip Sarkar	EIE	Birla Soft
117. Shubha R Sen Sarma	EIE	Birla Soft
118. Atul Chopdar	IT	Birla Soft
119. Biplab Ghosh	IT	Birla Soft

120. Rajiv kumar Agrawal	IT	<b>Birla Soft</b>
121. Sanjeev Mishra	CSE	<b>Carritor</b>
122. Rajeev kumar Agrawal	IT	<b>Carritor</b>
123. Abhijit Rout	ECE	<b>Sasken</b>
124. Rashmi Ranjan Padhi	ECE	<b>Sasken</b>
125. Aditya Padhi	ECE	<b>Sasken</b>

### 2001-05

126. Sachidananda Panda	EIE	<b>Paradip Phosphates Ltd</b>
127. Prasanna Ku Mishra	EIE	<b>Paradip Phosphates Ltd</b>

### Placement.....

*the forthcoming Companies....*

- IBM
- Tata Elexi
- CG Corel
- Jatayu Software
- Integra Microsystems

## News Corner

### Scholarships available at NIST

- **Siva Sankar Bishoyi Scholarship**

To commemorate the memory of our late student, **Siva Sankar Bisoyi**, who met a tragic accident on August 20, 2002, NIST is providing a scholarship called the SIVA SANKAR BISOYI SCHOLARSHIP AWARD. The value of this award is Rs. 10000/- (Rupees Ten Thousand Only) and will be given to one OUTSTANDING STUDENT based on MERIT cum MEANS criteria. This scholarship also includes book grant. BE/MCA students are eligible to apply. Surya Kanta Routray of 2001 batch and Muktikanta Sa of 2002 batch got have awarded this scholarship.

- **Post Matric Scholarship (PMS)**

Post Matric Scholarship (PMS) is one of the scholarships of Govt. of Orissa. This is a financial assistance for SC/ST students studying at Post-Matriculation stage to enable them to complete their education. A large number of students have received this scholarship.

- **Welfare Fund of BPUT**

As per recent Government of Orissa notification TTI-44/2003/15764 dated 9/9/2003, the operation of the WELFARE FUND will be as per the following guidelines:

1. Only registered students of BPUT admitted during the academic year 2002-03 and subsequent batches will be eligible under the Welfare Fund scheme.

2. On death of father/financing guardian, the student concerned will apply to the Director in the prescribed format alongwith necessary documents.
3. The application will be processed through various stages and committees in the Institute and in Biju Patnaik University of Technology.
4. On final approval, the student is expected to receive full financial support for all the remaining years of his/her study.

• **Teaching Assistant Scholarships**

A few top students, normally about 7-8, of each semester are provided with Teaching Assistant Scholarships based purely on their academic performance. The value of the scholarship is Rs. 700.00 per month. The selected students are assigned to a faculty member who then utilizes their services for grading assignments and quizzes. Also the close interaction between the faculty and students leads to research and teaching interest.

• **Economic Hardship Scholarships**

NIST is providing **Economic Hardship Scholarships** to the deserving students. The selected students are given a scholarship of Rs. 500.00 per month. About 7-10 students of each semester are awarded this scholarship.

• **Book Bank facility**

NIST is providing free book bank facility to 30 students of each semester. The selected students are getting all the books free of the respective semester. The Institute recently has been provided competitive examinations books, stationary, etc., worth Rs. 2000.00 in lieu of the books.

• **Scholarship for M.Tech students**

NIST is providing a monthly scholarship of Rs 3000.00 to all M.Tech registered students. The M.Tech students having valid GATE score are getting Rs. 5,000.00 per month from the Ministry of HRD, India. Apart from that each student is provided with a desk, individual PC with all modern industry based software.

**GATE Percentile – NISTians Success**

NIST students have shown their talent again in the recently published GATE result. Here are some of them...

Name	Branch	Percentile
Murli Mohan Rath	ELE	97.25
Pradesh Patro	IT	96.9
Prasanna Sahoo	ELE	88.6
Prasanna Ku Mishra	EIE	97.5
M Murali Krishna	ECE	88.77(NIST CENTER OF EXCELLENCE, BBSR)
Lakhmishree Panigrahi	CSE	90.04(NIST CENTER OF EXCELLENCE, BBSR)
Amit Kumar Meher	CSE	95.68(NIST CENTER OF EXCELLENCE, BBSR)

**PLACEMENT'2005 – What the Students say**

With the onset of the month of March 2005, it is time for the students of 2002-2006 batch to start counting their chickens before they hatch. The tension is palpable as the IT giants move into the campus for recruitment. It is time for dreams to take the shape of reality and for 130 students of the batch 2002 it has already taken shape. NIST E-news went ahead to capture these unforgettable moments in its own way by chatting with some of the starry eyed people who made it through.

On being asked how it felt on having a job even before the completion of their graduation (in fact, one year before graduation) each one of them vented out their suppressed excitement. Gourav Bhuyan (Satyam) had a one-liner “*The power to chase my own dreams*”. G Roopesh Kumar, fellow Satyamite, had a rather modest feeling that is of security and so did Poulami Mukherjee (Wipro – *dreams have in fact come true*). For Rajashree Mishra (Wipro) it is like eighteen years of education and hard work ultimately bearing fruit. E-news moves on to probe into find someone who belongs to group of those people who have been basking in the glory of their success for almost a year now. We caught up with Sourya Prakash Parida, student of batch 2001-2005 and recruited into TCS and put forth the same question and we got an experienced answer. To him a job provides a security which is a necessary impetus to pursue higher education later in life.

Where do the NISTians usually miss out? What are the problem areas? Communication skills and attitude problems were the general response. Sourya Prakash feels NISTians are technically weak which needs to be worked upon but Rajashree feels that they also lack patience. On being asked what are essential characteristics to achieve 100% placement, everyone had diverse views. Gourav confesses “*When I got through written, to me it was the belief in my basic instincts and the faith that no matter what, I am getting this job*”. Rajashree feels that hard-work, sincerity, perseverance and a good mindset is all that’s required. Sourya opines “*I feel we need to improve in the technical forefront as studies are becoming job oriented and semesters percentage oriented. The approach of study all that you can within the 15 days before exam is really of no use if you want to be technically strong as your fundamentals will never be strong if you follow this kind of routine*”.

On being asked “*Engineering is becoming more job oriented rather than being a foray into technical excellence*” and this is what they had to say:-

**Gourav(2002 batch):** “I don’t think so. I feel there are two parallel aspects of an engineering career. Jobs are just there to secure our future and help in gaining experience in application of education that we get in the four years at college. Both are dependent and mandatory to achieve success”.

**Sourya(2001):** “I find the software department getting more job oriented. To me the field of electronics still holds the sanctity of education aiming towards technical excellence”. Poulami and Rajashree share an affirmative view about it.

When asked on advising the juniors the following views were expressed...

**Poulami(2002):** “One should have right attitude, keep learning and never ever think you know everything, improve one’s communication skills and prepare well as it really works”.

**Roopesh(2002):** “Improve your software skills irrespective of your branch”.

**Gourav(2002 batch):** “Work really hard and don’t give up until you get through some company because when you do it will be worth it”.

**Sourya(2001):** “Try hard and have confidence in yourself”.

## Face to Face....

### Why did you choose NIST for Engineering Education?

Our student representatives spoke to many students on the above issue and got some interesting feedback.

**Tapas Kumar Kundu, Roll: 200310437, Branch: EE**

As we are in the world of severe competition & as the number of engineering colleges are piling up day by day, so as to choose the best college from the heap we have to check which college is giving maximum recruitment and also maintains academic excellence. I found NIST is the best. That’s why I have chosen NIST as career option.

**Pankaj Kumar Sabat, Roll: 200213377, Branch: ECE**

NIST is one of best engineering college in Orissa. It provides very good software training. Many good faculty members are here. This college has a good campus & very good placement is provided here. I joined here because NIST is very near to my town & to have a very good engineering career.

**Jayashree Mahapatra, Roll:200350421, Branch:ECE**

1. Impressed by the renowned faculty holding good degrees.
2. Tight schedule for any task to be done until its end stage.
3. Infrastructure is marvelous with ample computer systems provided to each student.
4. Good placement in good companies showing a good future.
5. Last but not the least, the campus is endowed with beauty in the nature's lap.

**Sunita Rani Padhy, Roll: 200350416, Branch: EI**

I choose NIST, because-

1. I was very much eager to join here due to its excellent results.
2. Its regularity & disciplined way of teaching attracted me.
3. Many of my seniors followed the same way; the faculty taught them & they got very good jobs.
4. Now I am hearing about the success of many of my seniors during this one year. So, I think there is a great chance for me.

**Sarbeswar Meher, Roll:- 200017213, Branch: IT**

It provides quality education especially in the area of software. I had a wish to have my career in IT. I could have joined REC or UCE, Burla. But preferring my objectives, I joined NIST.

### Student's Corner

#### FACES     Danish Kumar Hotta, 8th Semester

18<sup>th</sup> September 2001, our orientation day at NIST. The first time I saw the new **faces**. The **faces**, with whom I had to spend my four years. Just after two days, when I stepped into the college premises, there were many more **faces** waiting for me. The **faces** of my seniors, the very thought used to create a wave of fear inside me. The other new **faces** were that of my teachers, who would guide me throughout my four years. Just with this excitement, I started to turn everyday, every week to the college. The new **faces** of my classmates soon started to shape up into the **faces** of my friends. The face of my seniors, which used to make me frightened, now turned into caring **faces**, **faces** that reflected their experiences, their mistakes, and their good deeds. The **faces** of my teachers now expressed to me, what an engineer should be in the real sense. It showed me the good qualities that I would pour into my life, and the wrong ones, which should be eradicated from my life. The **faces** of friends now extended, from my classroom, to my batch. Every new day promised me a new face that would turn to be an unforgettable mark, throughout my life. I never knew when years passed by, and when it was the turn to come across some new **faces**, the **faces** of my juniors. These **faces** had surely led to some more fascinating memories.

In the meanwhile there were some **faces**, which were so angry with me, that they vanished into the darkness, leaving drops of tears in my eyes. There were some other **faces** too, which vanished away somewhere, promising to show up, someday. I am still waiting for that day. Now that I am addicted to the **faces**, the time has come when I realize that, there's hardly much time, after which these **faces** would leave memories with me, to cherish in the leisure time, when I close my eyes. I just want to convey this message to those **faces** that, wherever you may be, there is always a **face**, praying for your happiness.

*Ed: Only in the agony of parting do we look into the depths of love – George Eliot.*

**Friends forever Kaushik Bhakat, 2<sup>nd</sup> Semester**

My dear friend,  
At least in my presence,  
If you have tears  
In your heart  
Do not hold back  
Your tears,  
Let it flow.  
I will not wipe,  
I will not console,  
I will not philosophize,  
With empty words  
I would rather cry,  
Cry with you.  
Together we will cry,  
Together we will smile,  
TOGETHER, FOREVER.

**Alumni Page**

**Date:** 30 Mar 2005 06:01:09 -0000

**From:** susanta kumar patro <susanta\_2k@rediffmail.com>

**To:** Partha S Mallick <psmallick@yahoo.com>

**Subject:** after along time got into LnT(core)

**Respected Sir,** I am Susanta Kumar Patro, a 2004 passed out student. Sir, after a long struggle, I got into Larsen and Toubro, a CMM Level 5 company, and also placed in electrical and electronics division as an embedded engineer. It's all due to you only, Your continuous inspiration to climb the ladder has made me reach such an excellent company with a good domain having a good working environment. Though I didn't get placed in college, still after a long struggle I have achieved as because I am a NISTIAN. I am proud to say that I will never forget my college as I have got everything of my life from NIST. Once again I am very thankful to you, Sangram Mudali sir, Reddy sir, Panda sir, Abhro Mukherjee sir and Bhabani sir who were always inspiring me to go forward and to be successful. **Yours sincerely, Susanta Kumar Patro.**

**Date:** Mon, 04 Apr 2005 20:23:35 +0500

**From:** debasis@sahoo@tataelxsi.co.in

**Subject:** debasis sahuo from TATA ELXSI

**To:** psmallick@yahoo.com

**Dear Partha Sir,** How are you sir. I am fine here. Myself Debasis of 2001 batch worked as faculty in NIST for some time. I am now working in the area of ASIC design in VLSI area. I was just going through e-news. Really this piece of information is very crucial in linking alumni with college, juniors as well as faculty members. I would like to mention one important thing that NIST has a good launching pad to get into one's area of interest. Generally most of the people have to do some higher study and then they get to know what to choose in life. In that way NIST can save your precious time to choose a particular field and to be dedicated onwards to achieve some higher goal in life. This really gives much satisfaction in life. Convey my regards to Director Sir, Reddy Sir, Geetika Madam, Panda Sir. Any of our juniors who wants to get guidance in the field of VLSI, Embedded system and DSP is welcome. Thanks & Regards, **Debasis Sahoo Senior Engineer, ASIC Design Group, TATA ELXSI Pvt. Ltd.**

## Interview

(Here is the interview of Amar Prusty, NIST Alumni of 1997 batch)

**To: Padmalina Kabita(NISTe\_News Student Representative)**

**From: "amar prusty" <amarprusty@hotmail.com**

**Hi Kabita,** Thanks for giving me the opportunity to put my views across to around 2000 Students. Warm Regards, **Amar Prusty, Project Leader, Infrastructure Management Services (IMS), Infosys,Bangalore, Contact Number:08051176458 (Office)**

**NISTe\_NEWS: A few lines about yourself!!!!**

**AP:** I am a simple average student who has a passion for hard work along with patience and perseverance.

**NISTe\_NEWS: About your present Job...**

**AP:** Currently I am the project leader for a UK based Network Support project at Infrastructure Management Services division of Infosys.

**NISTe\_NEWS: Your most rewarding college experience...**

**AP:** My first stint with Internet @ NIST on the HUGHES VSAT system which only had 2-machines hooked on to it and I used to bunk classes to book 15-mins slots daily.

**Do not get complacent with a job offer in hand or very high grades in exams. Learn whatever you haven't.....Amar Prusty**

**NISTe\_NEWS: Which qualities do you think one should focus on during the academic years to make himself/herself capable for the professional life?**

**AP:** 4-years at BE is a golden opportunity to introspect your self and have an idea what are your strong points along with what excites you and what all you need to work on to improve. Whatever excites you make that your career and the passion will push you towards success.

**NISTe\_NEWS: Your fond NIST memories**

**AP:** The passion of 1996 batch and 1997 batch to make it big in life despite NIST being a startup new generation college in Orissa. I am in fact proud to say both the batches succeeded in their endeavors.

**NISTe\_NEWS: Suggestion to your juniors...**

**AP:** Please don't get complacent with a job offer in hand or very high grades in exams. Learn whatever you haven't and start building a good network of friends. Top companies like Cisco, Microsoft, Nortel, etc., have no time to rest on their past successes and have to keep innovating and learning to stay at the pinnacle. Similar is the case with IT professionals in the rapidly changing world of IT. Mail me if you need any other information. Hope the above information can help in achieving dreams. All the best.

**Always bear in mind, that your own resolution to succeed is more important than any other thing.**

**- Abraham Lincon**

**What the mind can conceive and believe, it can achieve - Napoleon Hill**

## Ragging at NIST – Student's View

Our student representative Ms Preeta Mohanty was moving around for the last two weeks to make a report on *Ragging at NIST*. She has got some written feedback from students. I

### Nishith Patnaik, 2002 batch

Ragging! Huh, it is only done in personal and technical interviews we appear for during placement activities. Though the word seems pretty common but still is misunderstood by many and misused in some context. Asking an individual his/her name, asking to say or act something does in no sense necessarily mean that the person is being ragged. That too in NIST it has become a mockery. Until and unless the person gets harassed or intimidated in any manner whatsoever he/she can't be said to be ragged. So far what one observes in NIST is each newcomer gets protected by a whole bunch of guards, staff and even faculty members, from day one. From the observer point of view people just test the IQ level, intelligence, smartness and alertness of the incoming students.

### Jijnasha Pattanyak, 2001 batch

NIST has a ragging free environment. Due to this reason there is absolutely no interaction between seniors and juniors. Seniors hardly get any free time to rag the juniors. Our faculty does the actual ragging. Till final semester they rag the students with lots of assignments, seminars and projects. Usually it's the fresher who face ragging but at NIST final year students are also ragged by teachers.

### Anindya Jena, 2001 batch

Except for some stray cases ragging used to be a fun affair like the one who can scold the fan will be let free etc., and then they were usually followed by nice treats sponsored by the seniors. Down the lane the seniors and those who were ragged, developed strong and friendly relationships and derived obvious benefits like guidance on subjects and books. I sincerely believe that NIST's no ragging policy should be changed and a moderate amount of ragging should be allowed to inculcate a more vibrant relationship between seniors and juniors.

### Sanjeet Kumar Pradhan, 2001 Batch

Engineering colleges are generally associated with the concept of ragging and its true in most of the cases. But institutes like NIST have proven this concept wrong. There is absolutely no ragging at NIST. Especially for the last two years NISTians have forgotten the term ragging. It may be due to two reasons. First is the strict environment and secondly there is no time left with the seniors to rag juniors. Anyway, it does hamper the relationship between juniors and seniors due to which most of the time freshers misbehave with seniors and it does happen. A formal interaction at NIST is also getting the name of ragging which I think is the worst part.

## How Research brings money: An Interview

*Shuji Nakamura*, the inventor of blue LASER diode, is a world famous researcher who received both bachelor and Masters degree in Electronic Engineering from the University of Tokushima. A few years back one of his research papers was numbered 6 on the *Science Watch* list of Red Hot Research Papers of 1996—one of only three physical-sciences papers to rank among the year's most-cited reports. That paper subsequently enjoyed a long run in the Physics Top Ten during 1997. Recently, a 1998 paper has also appeared among the Top Ten research papers. For decades, researchers working for the biggest players in the electronics industry, from RCA and Hewlett-Packard to Matsushita and Sony, tried their hands at the blue laser diode and failed. Nakamura did it while working for Nichia Chemical Industries Ltd. in Tokushima, Japan.

- ***Your background was not in lasers at all. How did you get started in this business, and why Nichia Chemical, which had no research in this area?***

*Nakamura:* After I graduated from the University of Tokushima with a master's degree in electrical engineering, I expected I would go to work for a big consumer electronic company such as Sony or Toshiba. But while I was studying I got married and my wife and I had a baby, and I wanted to raise my child in a small city like Tokushima, because I thought Tokyo was too big and too noisy. So I decided I would stay in Tokushima, but the only companies around were very small. My advisor, Professor Osama Tada, knew the president of Nichia Chemical and recommended me to him. At that time, the company was making a phosphor for CRT tubes and fluorescent lamps.

- ***What did you start off doing?***

*Nakamura:* Virtually everyone in the company was working to make this phosphor. I managed to get to the R & D department, which was all of three people, working on purified gallium metal. This was a source material of gallium arsenide and gallium phosphide, which could be used to make red and infrared light-emitting diodes. Since I had also studied semiconductor theory and technology, and my interests were in material science, I thought I could do some research to make a crystal of GaP.

- ***Did you succeed?***

*Nakamura:* Yes. It took me three years. I made gallium phosphide crystals but my sales were not good, because the bigger companies—Toshiba and others—were by then selling the same product. Because Nichia was small and its name was not a familiar one, I couldn't compete. My company wasn't happy with me. I quit the gallium phosphide research and switched to gallium arsenide crystal growth in 1982. That can also be used to make infrared and red LEDs. I spent another three years making a gallium arsenide crystal.

- ***How did that do?***

*Nakamura:* It was the same story. By 1985, I had a product to sell, but again sales were not good, because the same big companies were already selling the same product. My company couldn't win the competition with the big companies and the bosses weren't happy.

- ***You still weren't doing laser research?***

*Nakamura:* Not yet. In 1985, I went to work on a gallium aluminum arsenide epitaxial wafer. This is also used for LEDs. It's called an epitaxial wafer because you use very thin layers to make the LEDs. So I spent the next three years on that and came out with these gallium aluminum wafers for red and infrared LEDs, but the same thing happened: Our sales were not good because the bigger companies were already selling the same product by the time I was. The quality of our LEDs and epitaxial wafers was just as good and the prices were the same, but our company was small and local and couldn't compete. So once again my company was not happy. By this time the R&D department was down to just me—the other two people left because the results were so terrible. I kept at it, but I was dispirited. For ten years I had worked very hard to make these products. I worked twelve hours a day, seven days a week, except holidays. I had a very, very small budget and had to make everything I needed myself. I even made my own reactors—the furnaces needed to do the crystal work. The commercial reactors were too expensive. I made three products all by myself, and still my salary and position were not good at the company. My bosses always complained that my results were terrible, because I spent a lot of money, as far as they were concerned, and nothing sold. But for ten years I had been working to make these LED materials and I knew at the time there were no high-brightness blue LEDs. For LED researchers, this was a dream. But my bosses said it would be impossible to create a blue LED at Nichia, because many big companies and many research teams in big universities were trying to do it and were failing. So I went to my company's chairman, Nobuo Ogawa, who was my Professor's friend, and the president Eji Ogawa, who was his son-in-law. I asked them if they would let me do research on blue LEDs and they said "Sure. No problem. Go ahead." I was very surprised. I asked them to give me a large budget so I could do it. "Please give me three million U.S. dollars," and they said "Sure. No problem." They had faith in me because, despite the dismal sales, I had developed three new products for this company and I was the only one at Nichia who had succeeded in making new products. Then I worked on blue LEDs and got the success.

(Source: "Blue Lasers" - *Optoelectronic Reports*, August, 1996)

## Question of the Month

It was the most pathetic sight of the day when I visited a small village nearby. I found that a young beautiful girl was badly treated by her in-laws, family members and other villagers just because a couple of months after her marriage, she lost her husband followed by many such bad events in her family. A superstitious belief was ingrained in them that some evil spirit was residing in that lady which resulted in various ill consequences.

***How long will this continue? What should we do to get rid of these types of superstitious beliefs?***

Send your views before 10th of next month with a short reason to the Editor at [niste\\_news@yahoo.com](mailto:niste_news@yahoo.com). Your views will be published in the next issue. The Question of the last was "Should Mobile Phones be banned for students on campus?" We have received a good response this time.

***From: Sandeep Padhi, 4<sup>th</sup> Semester***

**No**, mobiles shouldn't be banned in the campus. Practically speaking, they are by no means a source of disturbance in the campus. How often do we hear a mobile ringing inside the classroom, a place where it really matters? Even if it does occasionally, it can be neglected. When we have technology at our disposal why not use it? It has become an important means of communication and helps stay in touch so why ban it? Also the other fear behind issuing such bans is baseless because it's not everyday that a SMS scandal occurs, more so in this part. Hence mobiles shouldn't be banned.

***From: Rajashree Dey 4th Semester***

**No**, it is true that the recent technology and advanced management of today's changing world has brought in new resources that we like to seek. Mobile phone is a basic need for students, for a first yr. student when he feels homesick, he can talk to his parents from the college or can use his cell to ring to hostel in case if he forgets to bring practical record, notes, books etc. Many such problems can be solved using a mobile. Therefore, it should not be banned.

***P.V.K.Sandeep, BE 6<sup>th</sup> Semester, IT***

Mobile phones are used for fast exchange of information and more suited to businessman, doctors and professionals. A student should have interaction only with teacher and other classmates. There is more necessity for a PC than a cell phone. It distracts not only the attention of the person who receives the call but also others sittings beside the student. It shows disrespect towards a teacher. But no one can prevent a student from carrying a cellphone on the campus. After all this is the age of hi-tech communication.

## THE Microsoft and Us

**A. Aditya, Abhishek Bhattacharya, Amartya Banerjee, Anup Tripathy, Vikramaditya Mishra**

After a couple of months of inaction came the inevitable week of hard work. The reason, an invite from Microsoft Corp. to give a presentation on the Microsoft Student Project we had undertaken. Microsoft had launched its Student Projects Program in the month of August '04 and it had given us the impetus to start something which exercised our creative side.

We chose the project "Production Planning Based on Sales Forecasts" as the one to work on because it was challenging & it had real life application in every manufacturing sector.

Microsoft in true corporate fashion had restricted the use of development tools to only its own software, the whole project was to be done on the Microsoft.NET platform. December was the deadline for the submission of the documentation and after working really hard to move along lines of MS solutions framework we managed to complete the documentation on time for evaluation.

After three months Microsoft released the results of groups selected for the second round of evaluations. Our group was scheduled for the presentation in Vizag on the 21<sup>st</sup> of March. After frenzied preparations amidst the hectic college schedule we arrived at Vizag on Saturday, 20<sup>th</sup> march. The presentations were to start at 8:30am, in the conference hall of Hotel Dolphin. We reached half an hour prior to the scheduled start and really appreciated the fact that the Microsoft guys were already there with an array of astonishing gadgets like the Tablet PC's, Microsoft PDA's as well as wireless projectors. They were not only supremely polished in their appearance but the professionalism in their approach soothed our jangling nerves, as this was our 1<sup>st</sup> corporate presentation.

It was around 1PM, when our turn came for the presentation. We started out by giving a PowerPoint presentation, explaining the steps followed by us to solve the given problem. At the end of the presentation the evaluation board seemed to be quite satisfied with our solution and to quote one of them: "This is one of the better projects that I've seen today and I appreciate the levels of teamwork exhibited by you." We hadn't started out on real coding because a lot of our time had been used up in perfecting the algorithm to be used, the Microsoft personnel said that we'll have to work hard to finish the package in the stipulated time; but nonetheless they told us to keep up the good work. The trip was rounded off by the five of us group members embarking on a whirlwind tour of Vizag and some serious bird watching. We are really grateful to our college, Mr. Indraneel Mukhopadhyay, Dr. Ravi P. Reddy for giving us the opportunity to work on a project that really *matters*.

### My American Break

### Anjan Dasgupta, Faculty, English

As I strode out of the aeroplane at the Dulles International Airport at Washington D.C I had little idea of what could be in trying to explain what actually is! At the where I spent my rewarding time. I took *language Teaching* that of teaching a language.



The academic truly awesome. I was which they use

purposes is mind boggling. In a standard postgraduate class there are around 10-15 students. Most of the students take a year or two off for a job before they resume their studies at the postgraduate level. They use this time to work. The students are very punctual and they are very professional and serious. They are very respectful towards their teachers and at the same time maintain a very friendly relationship with them. One very fascinating aspect is the urge the people have to learn. In the course that my two fellow Fulbrighters from Indonesia and Saudi Arabia and I took, there were as many as eight professors from the university! They always upgrade themselves with the latest techniques prevailing in the world. They are in a continuous endeavour to expand their horizon. Another very fascinating aspect is job respect. Our administrative officer works as a saleswoman in a shopping mall to supplement her income and is pretty cool about it. Almost all students work part-time, the most common outlet being restaurants.

But then the average American is very formal. And lacks the warmth of heart that we have in excess, there is a lot to learn from them and I see no reason why we cannot be the best. It would not be irrelevant to finish off mentioning that there are as many as 17 Indians working at the Johns Hopkins Campus I was in, the highest from any nationality and as many as 14 students, once more the highest! And finally I must say, it is great to be back.

Your friend is the man who knows all about you, and still likes you

- *Elbert Hubbard*

Grief can take care of itself, but to get the full value of joy you must have somebody to divide it with

- *Mark Twain*

## MAKE MY DAY

Everyday, each of us has the chance to interact with the outside world. During such interaction, often we are surprised and startled if someone does something nice for us without expecting anything more than a simple Thanks from us. Within our NIST campus, we have a community of 1800 students and 300 faculty and staff. All of us are busy with our respective jobs at hand. Office staff, bus staff, hostel staff, facility staff, computer staff, lab staff, faculty members, all interact with the students throughout the day. Very often, someone does something pleasant smile, an act of compassion or beyond the call of duty, or gives us a wonderful idea, or a cheerful and energetic solution, or makes us Often



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when we are feeling down, something happens for us to "get back" into this magic called "life". This is what in common language called "FEEL GOOD". The person who made us "FEEL GOOD" must be recognized.

To celebrate such acts of fellow compassion, cheerfulness, selflessness, passion, dedication, good workmanship, and FEEL GOOD we are starting a "MAKE MY DAY" campaign.

When someone does a great job, do share with us. Write a brief outline of the event (date, time, place, description of event in maximum of 200 words) and how another person (must be a NIST student or a NIST staff or a NIST faculty member - with his or her name) made a wonderful difference to your day. The event must be truly enriching to be shared with all.

Drop your note in the yellow box marked "MAKE MY DAY" in the Office. The persons who are responsible for top three FEEL GOOD acts of each month will be rewarded with prizes. The top three acts will be reported in NIST E-news.

### IBM Questions Priyadarshini Panda, Final Year

It consists of number series. Fill up the series.

1. 19,24,20,25,21,26,?
2. 11,14,12,15,13,16,?
3. 10,2,8,2,6,2,?
4. 8,9,11,14,,18,23,?
5. 25,25,22,22,19,19,?
6. A clerk multiplied a number by ten when it should have been divided by ten. The answer he got was 100. What should the Answer have been?
7. If Rs.20/- is available to pay for typing a research report & typist A produces 42 pages and typist B produces 28 pages. How much should typist A receive?
8. The average salary of 3 workers is Rs. 95. per week. If one earns Rs.115 and second earns Rs.65 how much is the salary of the 3rd worker.
9. A 16 stored building has 12000 sq. feet on each floor. Company A rents seven floors and company B rents 4 floors. What is the number of sq. feet of not rented floor space.
10. During a given week a programmer spends  $\frac{1}{4}$  of his time preparing flow chart,  $\frac{3}{8}$  of his time coding and the rest of the time in debugging the programs. If he works 48 hours during the week, how many hours did he spend debugging the program?

**ANSWERS: (1) 22 (2) 14 (3) 4 (4) 29 (5) 16 (6) 1 (7) 12 (8) 105 (9) 60000 (10) 18**