Annual Report 2006-07
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Director’s Report

It is indeed a privilege for me to present the Director’s Report for the year 2006-07 including the major events and performance of the institute.

It is with enormous sense of pride that I share with you the news that Shri Giriraj Kishore, Former Registrar and Head of ‘Centre for Creative Writing and Publication (CCWP)’ at IIT Kanpur has been conferred the ‘Padma Shree’ award this year.

ACADEMIC ACTIVITIES

The academic year 2006-2007 has had a successful run. The number of graduating students both at the undergraduate (B Tech-306, M Sc (5 year Integrated)-37, B Tech–M Tech Dual Degree (5 year)-41, M Sc (2 year)-85, Total = 469) as well as postgraduate (M Tech-312, M Des-14, MBA-32, PhD-86, Total = 444) level shows a fairly satisfactory trend. The enrollment in the Doctoral programme as well as the publication record of the faculty and students for the academic year 2006-2007 has considerably increased. Faculty members and students published more than 1000 research papers in journals and conference proceedings. Books published by the faculty are listed in the appendix of this report.

An initiative in the area of Environmental Sciences and Engineering has already been undertaken utilizing the MPLADS funds donated by Shri Arun Shourie. The facility being constructed on a plot area of 17,500 square meters is in an advanced stage. The building houses laboratories, seminar and discussion rooms for various disciplines of the environmental sciences. The architecture, in compliance with TERI Griha Certification, incorporates nearly all the features of a Green Building. The proposed Centre seeks to develop futuristic technologies in the area of environment that will confer immediate benefits to the society. Certain urgent concerns including abatement of pollution from industries and process plants, conservation of ground and surface water, control of air pollution, ozone depletion, and health risk assessment due to modern technologies, among others will be addressed.

AWARDS AND HONORS

The faculty and students of IITK continue to break new grounds in the forefront of research. This has been duly recognized in the form of various awards and honors to the faculty including Fellowships of professional societies, Editorship of international journals, and best paper awards to the students. A representative list of Awards and Honors to our faculty members is included separately in this report.
One of our B. Tech. first year student (who will soon move to second year) Mr. Nirmesh Malviya has been conferred the prestigious **Aditya Birla Scholarship**. Two of our B. Tech. second year students (who will soon move to third year), Mr. Varun Jain and Mr. Subhonmesh Bose have received the **Goldman Sachs Global Leaders Award** and are expected to attend the Global Leadership Institute in the USA.

IIT Kanpur is proud of Professor Sanjay Mittal (Aerospace Engineering) who was conferred the prestigious **Shanti Swarup Bhatnagar Award – 2006**. Professors Manindra Agarwal (Computer Science & Engineering), N. Sathyamurthy (Chemistry), T.K. Chandrashekhar (Chemistry), Ashutosh Sharma (Chemical Engineering), and V. Chandrashekhar (Chemistry) received **Sir J C Bose Fellowship by DST**. Professors R.K. Thareja (Physics), Amalendu Chandra (Chemistry), Vinod K. Singh (Chemistry), J.N. Moorthy (Chemistry), and Y.D. Vankar (Chemistry) have been awarded the **Ramanna Fellowship of the DST**. The **Swarnajayanti Fellowship**, given by the Government of India, recognizes outstanding young researchers who explore new frontiers in Science & Technology. This Fellowship was awarded to Professor Mahendra K. Verma (Physics). Dr. Avinash Kumar Agarwal (Mechanical Engineering) has been selected for the **INAE Young Engineer Award-2005**, while Drs. Animagnsu Ghatak and V. Shankar (Chemical Engineering) were chosen for **Young Engineers Award of INAE for the year 2006**. Dr. Bishakh Bhattacharya, Assistant Professor (Mechanical Engineering) has been conferred the **Young Scientist Award for the year 2006** instituted by the Systems Society of India. Dr. Yogesh M. Joshi, Assistant Professor (Chemical Engineering) has been awarded the **INSA Medal for Young Scientist (2006)**. Professors R. N. Biswas and Amit Ray have been honored with the **Distinguished Teacher Award of IIT Kanpur for the Year 2006**.

**RESEARCH & DEVELOPMENT**

The institute has witnessed significant growth in its Research and Development activities in diverse fields of Science and Technology during 2006-07. The faculty, research engineers and scientists of the institute are engaged in executing, at any time, a large number of sponsored and consultancy projects. During the financial year 2006-07, the institute received 138 sponsored and 96 consultancy projects with a research grant of Rs 65.69 crore and Rs 5.40 crore, respectively.

The institute faculty filed about 25 patents in India and overseas last year. Besides the institute has also signed several Memorandums of Understanding with international academic/ research institutions and industries both within the country and outside to strengthen its collaborative research efforts. Some of these organizations include: University of Hyderabad; Zee Interactive Learning Systems Ltd., (ZILS); Vikram Sarabhai Space Centre (VSSC), ISRO, Thiruvananthapuram; Bhabha Atomic Research Centre, Department of Atomic Energy (DAE) Mumbai; Tata Steel, Jamshedpur;
M.Tech innovations Ltd., Pune; Aryabhatta Research Institute of Observational Sciences (ARIES), Nainital; HEG Ltd., Bhopal, Central Pollution control Board, New Delhi; Mahindra & Mahindra Ltd., Mumbai; Hindustan Aeronautics Ltd., Lucknow; Indo Gulf Fertilizers- A Unit of Aditya Birla Nuvo Ltd. Many institutions of international repute have also collaborated with the Institute; L’ Ecole National Superieure, D’Arts ET Metilers, France (ENSAM); Her Majesty The Queen in Right of Canada CANMET; Indo-French Centre for the Promotion of Advanced Research (IFCPAR), Centre Franco-Indien Pour La Promotion De. La Recherche Advancee (CEFIPRA); Universiti Teknologi Mara, Shah Alam, Malaysia; Interuniversitair Micro-Electronica Centrum, Belgium; University of Texas Southwestern Medical Center at Dallas, Dallas.

The Institute has also entered a Memorandum of Understanding with Hindustan Aeronautics Limited (HAL) to conduct basic and advanced research and tackle multi-disciplinary problems in aircraft systems technology and its application. This MoU is in recognition of the felt need for Scientific and Engineering research that would enable a truly self-reliant and advanced aircraft systems development programme for the country in the coming years and IIT Kanpur’s strong research base in critical areas that would help fulfill such a need. In particular, HAL is keen to utilize the expertise available at IITK in aircraft systems and Line-Replacement Units (LRUs) related technologies.

A project “Brihaspati Phase-2: Development of open source content delivery tools with advanced features” funded by the Ministry of Communication and Information Technology (MCIT) aims to develop the Brihaspati Virtual Classroom tools further with better and modified architecture. The expected outcome of the project involves Web application source codes in different packages written in java; the rpms, zips for installation; jar based distribution; documentation of the architecture and user documentations made available to public via websites of the project; Working LMS installation using developed software; Technology being transferred to industry for commercially supported LMS Solutions.

The institute joins the Centre for Development of Advanced Computing (CDAC) Kolkata, CDAC Noida and CDAC Tiruvananthapuram as a fourth member and serves as the Consortium Leader. The project “Development of English to Indian Languages: Machine Translation (MT) System based on AnglaBharti Technology” is funded by the Department of Information Technology (DIT). The deliverables of the project involve development of a English to Indian Languages Machine Translation System based on AnglaBharti-II Technology, where the user will be able to give a document in English and have it translated in an Indian Language; the MT System will be developed in the Tourism and Health domains with 80-85% accuracy; language pairs involved will be English-Urdu, English-Punjabi, English-Bengali, and English-Malayalam.
A project “Ordered Peptide Assemblies” sponsored by the Department of Science and Technology (DST) sanctioned this year aims to analyze the fundamental role of short peptide motifs from biologically relevant sequences and proposes that they act as focal points in the aggregation process. Towards this goal, novel peptide constructs will be synthesized and their solution-phase aging behavior will be studied with the help of TEM/SEM, AFM and optical microscopic techniques to follow the initial phases of peptide aggregation to develop models for full-length protein aggregates.

The Department of Biotechnology has sanctioned a project titled “Structural and Biochemical Investigations to determine the roles of protein kinases B and G in M. Tuberculosis. The project has the objective of Structural and Biochemical characterization of PknB and its interaction with substrates. The project provides the structural basis for PknB -Substrate Interactions; Structural and Biochemical characterization of PknG and its interaction with substrates. Further, the project would lead to biochemical investigations that would help in identifying and characterizing the autophosphorylated residues in PknG.

The Aeronautics Research & Development Board (ARDB) has sanctioned a project titled “Identification, Analysis and Control of Flow Angularity in Thrust-Vectored Nozzles.” The project posits that simple additions of propulsion to flight-control technologies in linear simulations are inadequate. Some integrated airframe-propulsion system concepts have been proposed to develop more robust and agile flying platforms. The study involves a detailed analysis of the accelerated flow field through a curved nozzle which would help in identifying the location of the steepest radial pressure gradient. A closed loop fluidic actuator has been used to reduce the pressure gradients such that the divergence between the geometric and effective thrust-vectoring angle could be reduced.

Under the special drive of DST to compete globally in the field of “Bioinorganic Chemistry,” project proposals were invited and were reviewed by National and International Experts. Under this Scheme, a project entitled, “Modeling Oxido-reductase Enzymes of Molybdenum and Tungsten from Hyperthermophilic to Mesophilic Origin” has been sanctioned to IIT Kanpur. This research will try to understand the development of metalloproteins from hyperthermophilic anaerobic primitive environment of the earth to the present day mesophilic aerobic environment. The hyperthermophilic anaerobic tungsten enzymes and mesophilic aerobic molybdENUMenzymes will be synthesized in the test tube to understand their involvement in controlling several biogeochemical cycles like, nitrogen, carbon or sulfur cycles. The chemistry, structural features, biochemistry of the synthesized systems will be compared with the isolated native enzymes to develop hybrid systems.
The Department of Atomic Energy (DAE) under the Board of Research in Nuclear Sciences (BRNS) has sanctioned a project titled “Magnetic and superconducting thin film heterostructures for SPINTRONICS” in collaboration with the research scientists from SNBCBS, IISc, IACS, and Pune University. This collaborative research project envisages optimal utilization of thin film heterostructures of doped Mott insulators and multielemental intermetallics. The focus is on understanding the fundamentals of interface magnetism, carrier mediated exchange coupling, and Cooper pair and quasiparticle tunneling in superconductor-ferromagnet-superconductor [FM-SC-FM] and ferromagnet-insulator-ferromagnet [FM-I-FM] junctions. The issues such as the phase shift in the tunneling of the condensate in FM-SC junctions, long range proximity effect in SC-AF-SC sandwiches and spin polarized tunneling in FM-insulator-FM junctions will be addressed through extensive transport measurements over a wide range of temperature and magnetic fields. The immediate and tangible benefits of the project include fundamental understanding of the physics of these contemporary materials, development of expertise and human resource in the technology of heterostructures, creation of infrastructure for preparation and procession of new material systems for SPINTRONICS.

A project entitled “Passive and Active RFID and Location Technology Research” has been sponsored by the Boeing Company, St. Louis, Missouri, USA. The project aims at evaluating different RFID vendors for passive and active systems as well as for real time location systems, on the basis of the quality of their products and the technology employed, highlighting their strengths, weaknesses, advantages, disadvantages, and special features. Also, different types of RFID technologies and algorithms are to be assessed on the basis of their capabilities, accuracies, and reliability. Selected RFID hardware and software will be tested and researched in the laboratory environment to suggest means of the RFID technology and product improvement. The second phase (another three years) of the Boeing project will focus on the deployment of an accurate Real Time Location System (RTLS) in their large aerospace manufacturing plant in St. Louis, Missouri, USA.

Some of the other major sponsored projects undertaken by the institute include: National Facility for Microarray Genetic and Cell Imaging sponsored by DBT; Control of Reactive Distillation System by DST; High Alpha Aero Dynamic Testing by ARDB; Consolidation and Shear Strength Behaviour of Cohesive Soil with the Emphasis on its Intermediate Microfabric by DST; Feasibility Study of Superfinishing Process for Silicon Mirror by BARC; Investigation of Multi-functional Ferroelectric X- Thin Films for Sensor and Actuator Applications by DRDO; Organometallic Compounds of Ir (III) as Phosphorescent Dopants in Organic Light Emitting Diodes by DRDO; Neuro Fibrillary Tangles in Lafora Disease: Unravelling molecular player of dementia by LSRB; Identification, Analysis and Flow Angularity in Thrust Vectored Nozzles by
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ARDB; Image Velocimetry Development for Biomedical & MEMS Application by DST; Star-bust, linear and cross linked macro-molecule metal nano-particle hybrid as efficient recyclable catalysts by DST; Study of Efficiency of Polymers photo-voltaic cells Photo Detector by DRDO and Development of English to Indian Language Machine Translation System based on Anglabharti Technology.

A few major consultancy projects received last year include: Voice Processing funded by GM; Enhancement of Scosta Standard 1.2” by SEMICO; To Develop Membrane Process Based in Order to Recycle Urea Plant Process Condensate after Recovering Gas NH3+CO2 and Urea by ADITYA BIRLA; Field Trial of Biodiesel Fuelled CRDE Vehicle by MAHINDRA; Active Fault Mapping in KACCHH by OYO; Indigenous Development of BOF Process Automation System at RSP by RDCIS; Testing of Choice Application Software by CHIPS and CAD Based Carpet Design by MLA.

RESEARCH INFRASTRUCTURE DEVELOPMENT

The Institute is adding several major infrastructural facilities for carrying out multidisciplinary R&D activities. It is in the process of setting up a state of the art “Ion Beam Facility for Micro and Nano Scale Engineering.” DST has allocated about Rs. 15.00 Crore to the Institute for setting up 1.7 MV High Current Tandem Accelerator, Microbeam system with end station for protons, helium and heavy ions, Vibration free mounts/tables for object slit and microbeam station, High Resolution Si (Li) Detector for PIXE, Digital Current Integrator and many more facilities, and these will significantly impact the research being carried out. Further, such equipment will prove indispensable for rapid development of emerging technologies which utilize micro and nanostructures. It is ideally suited for cross-disciplinary research and development areas such as “Futuristic manufacturing” and “Study of nano materials and devices.”

The institute is setting up a centre for “Printable Electronics and Nanopatterning” to add to the establishment of a Centre for Nanotechnology, which started last year. The Department of Science and Technology (DST) has provided funding of Rs. 9.56 Crore for acquisition of Integrated Jetlab Print Platform with Interferometric Stage, Nanolithography and Manipulation Scanning Probe Microscope System with accessories like Materials Printer with heated planten, drop visualization and fiducial camera etc. The research deals in Scanning Electron Microscope for Nanomanipulator installation.

The Department of Science and Technology (DST) has a ‘Fund for Improvement of Science & Technology (FIST)’ scheme to build infrastructure facilities in Universities and Higher Educational Institutions. The grant under this scheme is provided for strengthening infrastructure of the identified department for teaching and research
and is to be spent exclusively for the said purpose. During 2006-07, IIT Kanpur has received FIST grants to add special infrastructure facilities for research purposes. The Department of Biological Sciences and Bioengineering has been provided a total amount of Rs. 220.00 lakh to strengthen the research facilities in areas of Cell Biology and Structural Biology. Similarly, the Department of Physics is sanctioned an amount of Rs. 422.00 lakh as financial support to acquire “Helium Liquefier, Helium Compressor, Cryogen Absorber, Helium Recovery Gas Bag, Acoustic Blanket for Helium Compressor etc.” The Department of Aerospace Engineering has been given an approval of Rs. 395.00 lakh to acquire “Time Resolved 3D PIV, Multi-channel CTA with Hot Film Probes, Pressure Calibrator, Pressure Transducers and Electro dynamics Tensile Testing Machine etc.” The Department of Mechanical Engineering is also sanctioned an amount of Rs. 935.00 lakh to strengthen research in the areas of “Experimental Stress Analysis, Smart Materials and Control, Fluid Mechanics, Heat Transfer, Energy Conservation, Manufacturing Science.”

IIT Kanpur has a Committee for Allocation of Research Equipment (CARE) Scheme providing financial assistance for the purchase of specialized equipment for multi-disciplinary research of significant value. The institute CARE support during 2006-07 has been Rs. 227.05 lakh for setting up Shielded Anechoic Chamber in the Department of Electrical Engineering, Precision Ion Beam Milling System in the Department of Materials and Metallurgical engineering, Density Gradient Separation cum Fractionation Facility in the Department of Biological Sciences and Bio Engineering, Encapsulation System for Organic Photovoltaic Devices/Panels in the Department of Electrical Engineering, Cyclic Triaxial Testing System to Evaluate Shear Strength and Liquefaction Potential of Noncohesive Soil in the Department of Civil Engineering, Optical Microscope for Research on Microfluidics and Contact Mechanics on Soft Materials in the Department of Chemical Engineering, Tunable Laser in the Wavelength range of 1480-1640nm in the Laser Technology Programme, and Engine Exhaust Particle Sizer (EEPS) Spectrometer with Rotating Disk Diluter & Software in the Department of Mechanical Engineering.

FINANCIAL RESOURCE MOBILIZATION

The Institute has had a satisfactory financial year during 2006-07. The total non-plan grant from MHRD was Rs 68 crore and that for plan funds was Rs 38.60 crore. I am sure that we will be able to cope well, thanks to the able guidance of our Chairman and the support of the alumni and other well-wishers of the Institute.

The last financial year has also been very successful for the fund raising activity at IIT Kanpur. The total amount of donation received was Rs 5.4 crore as compared to Rs 2.6 crore last year. The number of alumni donors doubled this year: about 628 alumni donated during 2006-07 as compared to 295 in 2005-06. Under the Annual Gift
Programme about 380 donors have donated about Rs. 49 lakh as compared to 120 donors contributing Rs. 13 lakh last year.

Seventeen new scholarships and several awards have been instituted for students during the year. Partial travel support to students from the donations enabled 71 students to participate in conferences overseas as compared to 43 last year. Last year, a cash award for publishing journal papers to students was introduced through the donations: 226 students were distributed Rs 26.11 lakh under the Programme.

Last year we started the Summer Undergraduate Research Programme (SURGE) to encourage undergraduate student research. The programme was a great success and this has enthused the institute to operate the programme again this summer with a larger group of students. Also, MoU signed with Ecole Centrale Paris this year for promoting undergraduate research has enabled student exchange in addition to that with Caltech started last year.

Eleven new faculty chairs were created during the year by our illustrious alumni. The donors include Mr. Deepak Devraj (B.Tech/EE/1970), Mr. Ravindra Nath Akhoury (B.Tech/EE/1968), Mr. Kamlesh Dwivedi (BT/EE/1979), Dr. Gurumukh D. Mehta (MT/ME/1969), Mr. Umang Gupta (BT/CHE/1971), Mr. Raj (BT/EE/1975) and Mrs. Neera Singh (BT/CHE/1981), Mr. Kamal Agarwal (BT/CHE/1972), Mr. Prashant Tewari (BT/ME/1979), and Mr. Ranodeb Roy (BT/CSE/1990). In addition, Chevron Chair was made possible due to the efforts of Mr. Jagjeet Singh Bindra (BT/CHE/1969); and a Chair in memory of the late Shri Arun Kumar (BT/EE/1969) has been established, thanks to Mr. Saurabh Srivastava (BT/EE/1968).

Donations from alumni and friends of IITK have also enabled us to start a scheme to provide partial travel support to new faculty during the first three years of their tenure at IITK. During first year of its operation (2006-07), 5 new faculty members of the Institute availed of this support for participation in conferences overseas.

There is enormous potential to improve the quality of education and research at IITK with support and active engagement of our alumni. The Institute is embarking on an ambitious plan towards this goal and I invite each and every alumni and well-wisher of IITK to come and join hands with us in this endeavour.

STUDENTS ACTIVITIES

IIT Kanpur continually strives to encourage an equitable balance between academics and extra-curricular activities among its students. Our vision is to create future leaders in their chosen fields and not just technically accomplished individuals. The Institute strongly believes that an abiding social and humane engagement is the hallmark of its students. To translate such belief into reality, the Institute nurtures various social,
cultural and sporting activities pursued by the Students’ Gymkhana and other student groups.

A variety of activities are pursued by various clubs coming under the broad ambit of the councils of the gymkhana. They range from clubs like Prayas, where students teach children coming from socially disadvantaged and economically deprived backgrounds to the Dramatics club which stages thematically inspired and socially relevant plays. Other technically oriented student groups are engaged throughout the year in pursuing special interests like robotics, electronic aids, animation, aero-modeling and astronomy to name but a few.

The overriding objective of the large-scale events of IITK such as Antaragni, Techkritil, Josh, Udghosh, Megabucks and Umang is to infuse a sense of richness and purpose in the lives of students. Antaragni is the Cultural festival. Techkriti is the science and technology festival. Josh and Udghosh are the sports festivals. Megabuck is a festival to promote the spirit of innovation and incubation. For the first time in Umang, two open air theaters were running parallel sessions with the movies in the auditorium. All these social, cultural and sporting activities play a crucial role in the transformation of a student into a complete person. These festivals have seen vastly improved participation levels, both from within the Institute and also from students from other national and international institutions. The revenues generated for conducting these festivals saw an impressive growth last year which is a tribute to the managerial and logistic skills of our students. A new event called “Alfaaz” was added to the list of festivals in 2007. This event focuses on a variety of literary activities and fills in a long felt need of that section of the campus community with a literary sensibility.

IIT Kanpur came up with a creditable show in the inter IIT sports meet held at IIT Bombay. The team finished fourth in the General championship and had a number of podium performances both in the team and individual events. To strengthen the sports culture, an inter-hall games event called JOSH was also organized which witnessed mass participation from the students.

The Nature Club organized several Bird Watching expeditions, and to the surprise of many found out rare species of birds in our own Campus. The club also organized tree-labeling Campaigns and started a new activity, called Insect Study, which has now many enthusiastic participants.

In order to improve the communication skills of the students, the Institute has established a Media Technology Center. The TV studio is now being shifted to this center. Several new, digital equipment have been added in this TV studio for post-processing of shows produced by students. A cable TV center as well as the Telephone Center is also located in this Media Technology Center.
The Institute has formed a club for Journalism. The student magazine “Meander” now contains both Hindi and English sections. Campus reportage is covered by both “Spark” and “Eyes” newsletter and the students contribute significantly to these. Another new addition is a newsletter called “Vox Populi.” The discussion and debate in the student community is covered by all these publications.

The student counseling service is the most active wing of students. The activities of this service include organizing the orientation programmes for UG as well as PG students; providing specific attention to students having academic, financial or personal problems; following up on the progress of students who need special attention. Overall, the student counseling service, both at the UG and PG levels, enjoys wide appreciation from faculty and students.

A very novel feature has been the opening of Yoga & Naturopathy center at IIT Kanpur, where the emphasis is totally on de-stressing the campus community in general and the students in particular. Several workshops and conferences have also been organized where professional counselors were invited to create awareness about stress management. Regular camps are being organized through the “Art of Living” & “Jeeewan Vidya.” These activities not only help in de-stressing the students, but also inculcate in them certain values, which are necessary to make an individual into a good human being and a thinking citizen.

The placement scenario this year has registered a positive upswing with almost 90 percent of registered students receiving job offers through the student placement office. About 700 public and private organizations were invited to interview the students. The response from various national and international business majors is encouraging. Many companies of repute have also registered for the on-campus recruitment programme for the first time. With an improved facilitation and response system in place, it is hoped that IIT Kanpur will see even better placement levels next year.

The Institute is fully geared to meet the infrastructural requirements that an enhancement in student strength is likely to create. As of now, there are a total of 10 halls of residence, eight for boys and two for girls. The total capacity of these halls is close to four thousand. Two new blocks with a capacity of 24 units for SBRA has been constructed. The entire rejuvenation programme was initiated with a generous donation from Mr. N. R. Narayana Murthy, a distinguished alumnus of IIT Kanpur.
Organisation

Indian Institute of Technology, Kanpur is an autonomous organization incorporated under an Act of Parliament in the year 1961, and is wholly financed by the Government of India, under the administrative control of the Ministry of Human Resource Development. The authorities constituted under the Act and Statutes, which govern and guide the functioning of the Institute in the areas of administration and academic programmes are; the Council of IITs, the Board of Governors assisted by two statutory bodies namely the Finance Committee in the financial matters and the Building and Works Committee in the matters related to construction and repairing of buildings and other major works. The Senate is assisted by its various standing committees. The compositions of these constituent bodies are as follows:

THE COUNCIL OF IITs

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Minister of Human Resource Development
New Delhi – 110 001

Chairmen of the Seven Institutes (Ex-Officio)
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Chairman, Board of Governors
IIT Guwahati

Shri Sanjeev Goenka
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Anusandhan Bhawan, Rafi Marg  
New Delhi

Dr. K Kasturirangan  
Chairman  
Council of IISc. Bangalore  
National Institute of Advanced Studies  
Indian Institute of Science Campus  
Bangalore
Prof. P Balram  
Director  
Indian Institute of Science Bangalore  
Bangalore

**Three Nominees of the Central Government**

Shri Sudeep Banerjee  
Secretary  
Ministry of Human Resource Development  
Dept. of Secondary & Higher Education  
New Delhi

Shri D Swarup  
Secretary  
Ministry of Finance  
Department of Expenditure  
North Block, New Delhi

Shri Brajesh Kumar  
Secretary  
Ministry of Information Technology  
Electronic Niketan  
6, CGO Complex, New Delhi

Prof. R.A. Yadav  
Acting Chairman, AICTE  
IP Estate  
IG Sports Complex  
New Delhi

**Nominees of the Visitor**

Prof. C.N.R. Rao  
Eminent Scientist  
& Chairman, Scientific Advisory Council to the Prime Minister  
Linus Pauling Research Professor & Honorary President  
CSIR Centre of Excellence in Chemistry,  
Chemistry & Physics of Materials Unit  
Jawaharlal Nehru Centre for Advanced Scientific Research  
PO – Jakkur, Bangalore
Prof. C S Seshadri  
Director  
Chennai Mathematical Institute, Chennai  
Plot H1, SIPCOT IT Park  
Padur PO  
Siruseri – 603 103

Prof. Sabyasachi Bhattacharya  
Director  
Tata Institute of Fundamental Research  
Homi Bhabha Road,  
Mumbai – 400 005

Dr. Kota Harinarayan  
Chairman  
Research Council of Central Scientific Instrument Organization  
Raja Ramanna Fellow  
National Aero Space Laboratories  
PO Box 1779,  
Bangalore – 560 017

Shri Tarun Das  
Chief Mentor  
Confederation of Indian Industry  
Plot No. 249-F, Sector 18,  
Udyog Vihar Phase IV  
Gurgaon (Haryana) – 122 015

Three Members of Parliament (Two from Lok Sabha and one from Rajya Sabha)

Shri Milind Deora  
Member of Parliament (Lok Sabha)  
65, Lodhi Estate  
New Delhi – 110 003

Shri Ananta Nayak  
Member of Parliament (Lok Sabha)  
180, South Avenue  
New Delhi - 110 011
Shri B J Panda  
Member of Parliament (Rajya Sabha)  
2, Mahadev Road,  
New Delhi – 110 001  

Secretary to the Council  
Shri Ravi Mathur  
Joint Secretary (Technical)  
Government of India  
Department of Secondary Education & Higher Education  
Ministry of Human Resource Development  
Shastri Bhawan  
New Delhi - 110 001  

THE BOARD OF GOVERNORS  
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[Upto 11.06.2006]  
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CSIR Centre of Excellence in Chemistry  
Chemistry & Physics of Materials Unit  
Jawaharlal Nehru Centre for Advanced Scientific Research  
PO – Jakkur  
Bangalore – 560 064  

Prof. M Anandakrishnan  
[From 12.06.2006]  
Chairman, Indian Institute of Technology Kanpur  
& Chairperson, Madras Institute of Development Studies  
79, Second Main Road, Gandhinagar  
Adyar, Chennai - 600 020  
Tamil Nadu  

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[Nupt 07.02.2007]  
Nuclear Science Centre, IUAC  
Aruna Asaf Ali Marg,  
New Delhi – 110 067
Prof. S Lele
Rector
Institute of Technology
Banaras Hindu University
Varanasi

Shri Anil D Ambani
Chairman & Managing Director
Reliance Centre, 3rd Floor
Walchand Hirachand Marg
Ballard Estate
Mumbai

Shri Ravi Mathur
Joint Secretary (Technical)
Government of India
Department of Secondary Education & Higher Education
Ministry of Human Resource Development
Shastri Bhawan
New Delhi - 110 001

Shri M C Gupta
Vice Chancellor
Rajiv Gandhi University of Technology
Airport Bypass Road
Gandhi Nagar
Bhopal

Shri Dilip Mehra
Principal Secretary
Government of Madhya Pradesh
Dept. of Technical Education and Science & Technology
Mantralay, Vallabh Bhawan
Bhopal - 462 004

Professor S. S. Katiyar
Vice-Chancellor
Chhatrapati Shahiji Maharaj University
Kanpur - 208 024
Shri Aman Kumar Singh  
Joint Secretary, Information Technology  
& Chief Executive Officer, CHIPS  
Government of Chhattisgarh  
Department of Commerce & Industry (Information Technology)  
Das Bhawan  
Mantralaya, Raipur, Chhatisgarh  

**Director (Ex-Officio)**  
Professor Sanjay G. Dhande  
Director  
Indian Institute of Technology Kanpur  
Kanpur 208016  

Two Nominees of the Senate  
Professor I D Dhariyal  
Department of Mathematics & Statistics  
Indian Institute of Technology Kanpur  
Kanpur - 208 016  

Professor Jitendra Kumar  
Department of Materials Science Programme  
Indian Institute of Technology Kanpur  
Kanpur - 208 016  

**Secretary**  
Shri Sanjeev S. Kashalkar  
Registrar  
Indian Insitute of Technology Kanpur  
Kanpur - 208 016
THE FINANCE COMMITTEE

Chairman

Prof. C.N.R. Rao
Chairman, BOG, IIT Kanpur
Linus Pauling Research Professor & Honorary President
CSIR Centre of Excellence in Chemistry
Chemistry & Physics of Materials Unit
Jawaharlal Nehru Centre for Advanced Scientific Research
PO – Jakkur, Bangalore

[Upto 11.06.2006]

Prof. M Anandakrishnan
Chairman, BOG
Indian Institute of Technology Kanpur
& Chairperson, Madras Institute of Development Studies
79, Second Main Road, Gandhinagar
Adyar, Chennai - 600 020
Tamil Nadu, India

[From 12.06.2006]

Members

Shri Ravi Mathur
Joint Secretary (Technical)
Government of India
Department of Secondary Education & Higher Education
Ministry of Human Resource Development
Shastri Bhawan
New Delhi - 110 001

Shri S K Ray
Financial Adviser
Government of India
Department of Education
Ministry of Human Resource Development
Shastri Bhawan
New Delhi - 110 001

Professor I D Dhariyal
Department of Mathematics & Statistics
Indian Institute of Technology Kanpur
Kanpur - 208 016
Director (Ex-Officio)
Professor Sanjay G. Dhande
Director
Indian Institute of Technology Kanpur
Kanpur 208016

Secretary
Shri Sanjeev S. Kashalkar
Registrar
Indian Institute of Technology Kanpur
Kanpur - 208 016

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Director
Indian Institute of Technology Kanpur
Kanpur 208016

Members
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Dy. Director
Indian Institute of Technology Kanpur
Kanpur 208016

Professor Jitendra Kumar
Department of Materials Science Programme
Indian Institute of Technology Kanpur
Kanpur - 208 016

Shri O P Bhatia
Chief Engineer (Northern Zone) CPWD
3 rd Floor Kendriya Bhawan
Sector H, Aliganj
Lucknow -226 024
Shri D N Agarwal  
Retd. Chief Engineer (Electrical) CPWD  
M-21, Greater Kailash-II  /New Delhi 110048

Shri M D Seth  
Retd. Engineer-in-Chief, UPRNN  
Consultant  
/Lucknow -226 001

Shri Subir Saha  
Director  
School of Planning & Architecture  
4-Block B, Indraprastha Estate  /New Delhi 110 002

Ms. Seema Raj  
Director (T)  
Government of India  
Ministry of Human Resource Development  
Shastri Bhawan  /New Delhi 110 001

**Secretary**
Shri Sanjeev S. Kashalkar  
Registrar  
Indian Institute of Technology Kanpur  
Kanpur - 208 016

**SENATE**
[From 01.04.2006 – 31.03.2007]

**Director & Chairman Senate**
Professor Sanjay G. Dhande  
Director  
Indian Institute of Technology Kanpur  
Kanpur 208016
Deputy Director
Prof. Kripa Shanker

Members of the Senate

AEROSPACE ENGINEERING (AE)
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Prof. Vijai Gupta
Prof. Kunal Ghosh
Prof. RK Sullerey
Prof. Dayanand Yadav
Prof. E Rathakrishnan
Prof. C. Venkatesan
Prof. T.K. Sengupta
Prof. Sanjay Mittal
Prof. S Kamle
Prof. K Poddar

BIOLOGICAL SCIENCES & BIO-ENGINEERING (BSBE)
Prof. Pradip Sinha

CHEMICAL ENGINEERING (CHE)
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Prof. Anil Kumar
Prof. Deepak Kunzru
Prof. JP Gupta
Prof. PK Bhattacharya
Prof. RP Chhabra
Prof. Ashok Khanna
Prof. Ashutosh Sharma
Prof. Goutam Deo [from 28.04.2006]

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Prof. S Sarkar
Prof. BD Gupta
Prof. YD Vankar
Prof. TK Chandrashekar
Prof. V Chandrasekhar
Prof. RN Mukherjee
Prof. Parimal K Bhardwaj
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Prof. Amalendu Chandra
Prof. Tapas Chakraborty
Prof. Faiz Ahmed Khan
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Prof. Mukesh Sharma
Prof. Onkar Dikshit
Prof. Partha Chakroborty
Prof. Rajiv Sinha
Dr. Bharat Lohani, AP

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Prof. Somenath Biswas
Prof. HC Karnick
Prof. Pankaj Jalote
Prof. TV Prabhakar
Prof. Sanjeev Kumar Aggarwal
Prof. Sanjeev Saxena
Prof. Rajat Moona
Prof. Manindra Agrawal
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Prof. Ajai K. Jain  
Prof. Shashank K. Mehta  
Prof. Sumit Ganguly  

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Prof. Prem Kumar Kalra  
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Prof. Utpal Das  
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Prof. Animesh Biswas  
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Prof. Baquer Mazhari  
Prof. Ravindra Arora  
Prof. G. C. Ray  
Emeritus Fellow from 01.07.06 to 31.07.2008  

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Prof. KK Saxena  
Prof. BH Boruah  
Prof. Binay Kumar Pattnaik  
Prof. G Neelakantan  
Prof. Achla Misri Raina  
Prof. Surajit Sinha  
Dr. Suchitra Mathur, AP
Prof. Amit Ray   Emeritus Fellow from 01.07.06 to 31.05.2009

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Prof. Arun P Sinha
Prof. R R K Sharma
Prof. Jayanta Chatterjee
Prof. NK Sharma
Dr. B V Phani

MATERIALS & METALLURGICAL ENGINEERING (MME)
Prof. SP Mehrotra  (on deputation)
Prof. RC Sharma
Prof. RK Dube
Prof. Brahma Deo
Prof. SC Koria
Prof. Sanjeev Bhargava  (on deputation)
Prof. Dipak Mazumdar
Prof. Rajiv Shekhar
Prof. Sandeep Sangal
Prof. R. Balalsubramaniam
Prof. Barada K Mishra  (on deputation)
Prof. Deepak Gupta
Prof. Monica Katiyar
Prof. Shant P Gupta     Emeritus Fellow from 01.07.06 to 31.07.2008

MATHEMATICS (MTH)
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Prof. Manjul Gupta
Prof. MK Kadlabajoo
Prof. Prawal Sinha
Prof. GP Kapoor
Prof. Peeyush Chandra
Prof. V Raghavendra
Prof. ID Dhariyal
Prof. Shobha Madan
Prof. Debasish Kundu
Prof. Pravir Kumar Dutt
Prof. Neeraj Misra
Dr. P Shunmugraj, ASP
Prof. UB Tewari Emeritus Professor from 01.07.06 to 30.06.2009

MECHANICAL ENGINEERING (ME)
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Prof. Prashant Kumar
Prof. S G Dhande (on deputation)
Prof. BN Banerjee
Prof. MS Kalra
Prof. VK Jain
Prof. NN Kishore
Prof. Himanshu Hatwal
Prof. PM Dixit
Prof. K Muralidhar
Prof. Gautam Biswas
Prof. Prabhat Munshi
Prof. BP Pundir
Prof. S.K. Chaudhury
Prof. N.S. Vyas
Prof. Vinayak Eswaran
Prof. Kalyanmoy Deb
Prof. P.S. Ghoshdastidar
**Dr. Sameer Khandekar, AP
Prof. Ashok Sengupta Emeritus Fellow from 01.07.06 to 30.06.2009

MATERIALS SCIENCE PROGRAM (MSP)
Prof. DC Agarwal Emeritus Fellow from 01.07.05 to 30.06.2007
Prof. Jitendra Kumar

PHYSICS (PHY)
Prof. RK Thareja
Prof. SC Agarwal
Prof. SD Joglekar
Prof. Keshawa Shahi
Prof. Rajendra Prasad
Prof. Debashish Chowdhury
Prof. RC Budhani
Prof. Y.N. Mohapatra
Prof. Avinash Singh
Prof. V.N. Kulkarni
Prof. Deshdeep Sahdev
Prof. Manoj K Harbola
Prof. Satyendra Kumar
Prof. V Ravishankar
Prof. Pankaj Jain
Prof. HC Verma
Dr. Sreerup Raychaudhuri, ASP

LASER TECHNOLOGY PROGRAM (LTP)
Prof. RK Thareja

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Secretary Senate : Shri Sanjeev S. Kashalkar

THREE NOMINEES OF THE CHAIRMAN, BOARD OF GOVERNORS
(From 01.11.2005 to 31.10.2006)
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Principal
GSVM Medical College
Kanpur – 208001

Prof. S K Awasthi
Director
Bundelkhand Institute of Engg. & Tech. (B.I.E.T.)
Jhansi – 284128

Prof. Parvez E Deen
Principal
Christ Church College
The Mall
Kanpur – 208001
SENATE STANDING COMMITTEES:

[From 01.10. 2005 to 30.09.2006]

(1) **SENATE EDUCATIONAL POLICY COMMITTEE** :

(a) **MEMBERS (EX-OFFICIO)** :

1. Chairman, Senate : Chairman
2. Chairman, SPGC - Dr. I D Dhariyal
3. Chairman, SUGC - Dr. Dheeraj Sanghi

(b) **SENATE NOMINEES** :

1. Dr. P M Dixit        ME
2. Dr. V Ravi Shankar PHY
3. Dr. Vinay Gupta   CE

(c) **STUDENTS’ SENATE NOMINEES** :

1. Mr. Anand Verma (Y3045) anandv@iitk.ac.in
2. Mr. Brajesh Pandey (Y120963) bpandey@iitk.ac.in

(2) **SENATE ELECTIONS COMMITTEE** :

**SENATE NOMINEES** :

1. Dr. Rahul Varman IME : outgoing Chairman
2. Dr. P K Panigrahi ME
3. Dr. P Sircar EE

(3) **SENATE LIBRARY COMMITTEE** :

(a) **LIBRARY** :

Librarian

(b) **SENATE NOMINEES** :

1. Dr. P S Ghoshdastidar ME
2. Dr. Vinod K Singh CHM
3. Dr. A Khanna CHE
4. Dr. C A Tomy HSS
(c) NOMINEES OF DEPARTMENTS/PROGRAMMES:

1. Dr. Krishna Kumar       AE
2. Dr. K Subramaniam       BSBE
3. Dr. R P Chhabra         CHE
4. Dr. F A Khan            CHM
5. Dr. S K Chakarbarti     CE
6. Dr. T V Prabhakar       CSE
7. Dr. S Umesh             EE
8. Dr. Satyaki Roy         HSS
9. Dr. Jayanta Chatterjee  IME
10. Dr. S Sivaprakasam     LTP
11. Dr. P K Panigrahi      ME
12. Dr. R K Dube           MME
13. Dr. K Shahi            MSP
14. Dr. Neeraj Mishra      MTHS & STAT.
15. Dr. A Sengupta         NET
16. Dr. V Ravishankar      PHY
17. Dr. Bishakh Bhattacharya M DES

(d) STUDENTS’ SENATE NOMINEES:

1. Ms Mansi Tewari (Y2210) mansi@iitk.ac.in
2. Mr. Narasimha K V (Y1172) narasimha@iitk.ac.in

(4) SENATE POST-GRADUATE COMMITTEE:

(a) MEMBER (EX-OFFICIO):

1. Dr. Pradip Sircar       EE: outgoing Chairman

(b) SENATE NOMINEE:

1. Dr. D Yadav             AE

(c) NOMINEES OF DEPARTMENTS/PROGRAMMES:

1. Dr. A Kushari           AE
2. Dr. Balaji Prakash      BSBE
3. Dr. Sanjeev Garg       CHE
4. Dr. R Gurunath         CHM
5. Dr. Rajiv Sinha  CE
6. Dr. S N Tripathi  EEMP
7. Dr. Rajat Moona  CSE
8. Dr. K S Venkatesh  EE
9. Dr. B K Pattnaik  HSS
10. Dr. Rahul Varman  IME
11. Dr. Asima Pradhan  LTP
12. Dr. Bishakh Bhattacharya  ME
13. Dr. Ashish Garg  MME
14. Dr. J Kumar  MSP
15. Dr. G P Kapoor  MTHS & STAT.
16. Dr. P Munshi  NET
17. Dr. V Subrahmanyam  PHY
18. Dr. Prashant Kumar  M DES

(d) STUDENTS’ SENATE NOMINEES:
1. Mr. Prashant Chaturvedi (Y4103029) cprash@iit.ac.in
2. Mr. Parameshwar reddy (Y4103028) param@iitk.ac.in
3. Mr. Sathyaraj V (Y210063) sathya@iitk.ac.in
4. Mr. Tony Jacob (Y3104123) tjacob@iitk.ac.in

(5) SENATE RULES COMMITTEE:
(a) MEMBER (EX-OFFICIO):
1. Parliamentarian of the Senate:
2. Dr. Ajai Jain  CSE : Upto 30.09.2005

(b) SENATE NOMINEES:
1. Dr. Jitendra Kumar  MSP
2. Dr. Anjan K Ghosh  EE
3. Dr. K K Saxena  HSS

(6) SENATE SCHOLARSHIPS & PRIZES COMMITTEE:
(a) MEMBERS (EX-OFFICIO):
Head Institute Counselling Service
Chairman, APEC
Dean of Students’ Affairs
(b) SENATE NOMINEES:
1. Dr. Manoj K Harbola  PHY : Outgoing Chairman
2. Dr. S K Choudhury  ME
3. Dr. P Munshi  ME
4. Dr. Mukesh Sharma  CE

(c) STUDENTS’ SENATE NOMINEES:
1. Mr. Niraj Kumar (Y2242) niraj@iitk.ac.in
2. Mr. Uttam Kumar Tripathi (Y2405) uttam@iitk.ac.in
3. Ms Swati Saxena (Y2183) swati@iitk.ac.in

(7) SENATE STUDENTS’ AFFAIRS COMMITTEE:

(a) MEMBERS (EX-OFFICIO):
Head, Institute Counselling Service
Chairman, APEC
Representative of COW
Dean of Students’ Affairs : Chairman, Ex-Officio

(b) SENATE NOMINEES:
1. Dr. Bharat Lohani  CE
2. Dr. N N Kishore  ME
3. Dr. Shobha Madan  MTHS & STAT

(c) STUDENTS’ SENATE NOMINEES:
Mr. Neeraj Kumar (Y2232) rohan@iitk.ac.in
Mr. Narasimha K V (Y1172) narasimha@iitk.ac.in
Mr. Yashodhan Shevade (Y4125050) yshevade@iitk.ac.in
Mr. Tony Jacob (Y3104123) tjacob@iitk.ac.in

(8) SENATE UNDERGRADUATE COMMITTEE:

(a) MEMBER (EX-OFFICIO):
1. Dr. Sreerup Raychaudhuri PHY : Outgoing Chairman

(b) SENATE NOMINEE:
1. Dr. R K Dube  MME

(c) NOMINEES OF DEPARTMENTS/PROGRAMMES:
1. Dr. D P Mishra      AE
2. Dr. Ashok Kumar    BSBE
3. Dr. Rajdip Bandopadhyay CHE
4. Dr. J K Bera      CHM
5. Dr. Bharat Lohani  CE
6. Dr. Purnendu Bose  EEMP
7. Dr. R K Ghosh     CSE
8. Dr. S S K Iyer    EE
9. Dr. Sanjay K singh HSS
10. Dr. Rohit Varman IME
11. Dr. Debabrata Goswami LTP
12. Dr. Ashish Dutta ME
13. Dr. Monica Katiyar MME
14. Dr. K Shahi      MSP
15. Dr. D Bahuguna  MATHS & STAT.
16. Dr. P Munshi     NET
17. Dr. S Raychaudhuri PHY
18. Mr. Satyaki Roy  M DES

(d) STUDENTS’ SENATE NOMINEES :
    1. Mr. Saksham Aggarwal (Y1310) saksham@iitk.ac.in
    2. Mr. Vineet Singh    (Y2425) vinsingh@iitk.ac.in
    3. Mr. Prateek Bhansali (Y3228) prateekb@iitk.ac.in
    4. Mr. Shubham Gupta  (Y4424) shubhg@iitk.ac.in

THREE NOMINEES OF THE CHAIRMAN, BOARD OF GOVERNORS
(From 01.11.2006 to 31.10.2007)

Prof. G K Rai
Department of Ancient History Culture & Archeology
Allahabad University
Allahabad

Shri N C Agarwal
General Manager
Hindustan Aeronautics Ltd. (H.A.L.),
Indira Nagar
Lucknow - 226016
Dr. Masood Ali,
Director
Indian Institute of Pulses Research (IIPR)
Kanpur-208024

SENATE STANDING COMMITTEES:
[01.10.2006 TO 30.09.2007]

(1) SENATE EDUCATIONAL POLICY COMMITTEE :
   (a) MEMBERS (EX-OFFICIO) :
       1. Chairman, Senate  : Chairman
       2. Chairman, SPGC   : Prof. I D Dhariyal, MTH & STATS
       3. Chairman, SUGC   : Prof. Dheeraj Sanghi, CSE

   (b) SENATE NOMINEES :
       1. Dr. D Yadav, AE
       2. Dr. Aloke Dutta, EE
       3. Dr. R C Budhani, PHY

   (c) STUDENTS’ SENATE NOMINEES :
       1. Mr. Cherian Varkey Mathew (Y4129) cherian@iitk.ac.in
       2. Mr. Dhiraj Kumar Mahajan (Y250561) dhiraj@iitk.ac.in

(2) SENATE ELECTIONS COMMITTEE :
   SENATE NOMINEES :
       1. Dr. P K Panigrahi, ME
       2. Dr. Debasis Kundu, MTH & STAT
       3. Dr. B V Phani, IME  : Chairman

(3) SENATE LIBRARY COMMITTEE :
   (a) LIBRARY :
       1. Librarian  : Shri Rajeshwar Mishra
(b) SENATE NOMINEES:

1. Dr. Ashok Khanna, CHE
2. Dr. P S Ghoshdastidar, ME
3. Dr. K Srihari, CHM
4. Dr. Sankararamakrishnan, BSBE

(c) NOMINEES OF DEPARTMENTS/PROGRAMMES:

1. Dr. D Das     AE
2. Dr. K Subramaniam  BSBE
3. Dr. Sanjeev Garg  CHE
4. Dr. Jitendra K Bera  CHM
5. Dr. S K Chakarbarti  CE
6. Dr. Purnendu Bose  EEMP
7. Dr. T V Prabhakar CSE : Chairman
8. Dr. S Umesh  EE
9. Dr. C A Tomy  HSS
10. Dr. S Swami  IME
11. Dr. R C Budhani  LTP
12. Dr. P K Panigrahi  ME
13. Dr. Monika Katiyar  MME
14. Dr. Jitendra Kumar  MSP
15. Dr. A K Maloo  MTH & STAT
16. Dr. M S Kalra  NET
17. Dr. D Chowdhury  PHY
18. Ms. Koumudi Prakash Patil (HSS) M DES

(d) STUDENTS’ SENATE NOMINEES:

Mr. Rishabh Uppal (Y3290) rishabh@iitk.ac.in
Mr. C Saipriyadarshan (Y5149) darshan@iitk.ac.in

(4) SENATE POST-GRADUATE COMMITTEE:

(a) MEMBER (EX-OFFICIO):

Dr. Dr. B K Pattnaik HSS : Outgoing Chairman

(b) SENATE NOMINEE:

1. Dr. Rajiv Sinha, CE
(c) NOMINEES OF DEPARTMENTS/PROGRAMMES:

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2. Dr. Dhirendra S Katti 
3. Dr. Nishith Verma 
4. Dr. S Verma 
5. Dr. Pranab K Mohapatra 
6. Dr. Avinash Agarwal 
7. Dr. Shashank K Mehta 
8. Dr. K S Venkatesh 
9. Dr. A Madan 
10. Dr. Anoop Singh 
11. Dr. Asima Pradhan 
12. Dr. Sumit Basu 
13. Dr. Anish Upadhyaya 
14. Dr. Rajeev Gupta 
15. Dr. I D Dhariyal 
16. Dr. P Munshi 
17. Dr. V Subrahmanyam 
18. Dr. Satyaki Roy (HSS)

(d) STUDENTS’ SENATE NOMINEES:

1. Mr. V Sathyaraj (Y210063) sathya@iitk.ac.in
2. Mr. Ramesh Kumar Sonkar(Y3104118) rksonkar@iitk.ac.in
3. Mr. Hemant Rao (Y5125010) hemant@iitk.ac.in
4. Mr. Jai Prakash Narayan (Y5101011) jprakash@iitk.ac.in

(5) SENATE RULES COMMITTEE:

(a) MEMBER (EX-OFFICIO):

Parliamentarian of the Senate:
Dr. N Sathyamurthy

(b) SENATE NOMINEES:

1. Dr. D Kunzru, CHE
2. Dr. M K Kadalbajoo, MTH & STAT
3. Dr. Kamal Poddar, AE
(6) SENATE SCHOLARSHIPS & PRIZES COMMITTEE:

(a) MEMBERS (EX-OFFICIO):

Head Institute Counselling Service : Dr. Goutam Deo, CHE
Chairman, APEC
Dean of Students’ Affairs : Dr. Prawal Sinha, MTH & STAT

(b) SENATE NOMINEES:

1. Dr. S K Choudhury, ME
2. Dr. Sanjeev K Agrawal, CSE : Chairman
3. Dr. Shobha Madan, MTH & STAT
4. Dr. Brahma Deo, MME

(c) STUDENTS’ SENATE NOMINEES:

1. Mr. Anirudh Harlalka (Y3048) anirudhh@iitk.ac.in
2. Mr. Sumant Singh (Y3363) sumant@iitk.ac.in
3. Mr. Shashank Y Rao (Y5430) shanks@iitk.ac.in

(7) SENATE STUDENTS’ AFFAIRS COMMITTEE:

(a) MEMBERS (EX-OFFICIO):

Head Institute Counselling Service : Dr. Goutam Deo, CHE
Chairman, APEC
Representative of COW : Dr. F A Khan, CHM
Dean of Students’ Affairs : Chairman, Ex-Officio

(b) SENATE NOMINEES:

1. Dr. N S Vyas, ME
2. Dr. A K Chaturvedi, EE
3. Dr. Asima Pradhan, PHY

(c) STUDENTS’ SENATE NOMINEES:

1. Mr. Anirudh Harlalka (Y3048) anirudhh@iitk.ac.in
2. Mr. Tony Jacob (Y3104123) tjacob@iitk.ac.in
3. Mr. Sumant Singh (Y3363) sumant@iitk.ac.in
4. Mr. Abhijit Bagri (Y2157006) abagri@iitk.ac.in
(8) SENATE UNDERGRADUATE COMMITTEE :

(a) MEMBER (EX-OFFICIO) :

Dr. Sreerup Raychaudhuri  PHY  : Outgoing Chairman

(b) SENATE NOMINEE :

1. Dr. Satyendra Kumar, PHY

(c) NOMINEES OF DEPARTMENTS/PROGRAMMES :

1. Dr. Sanjay Mittal  AE
2. Dr. Anupam Pal  BSBE
3. Dr. Rajdip Bandyopadhyay  CHE
4. Dr. M L N Rao  CHM
5. Dr. C V R Murty  CE
6. Dr. Purnendu Bose  EEMP
7. Dr. Dheeraj Sanghi  CSE  : Chairman
8. Dr. A Biswas  EE
9. Dr. M Chandran  HSS
10. Dr. Rahul Varman  IME
11. Dr. H Wanare  LTP
12. Dr. P S Ghoshdastidar  ME
13. Dr. Gouthama  MME
14. Dr. Kamal K Kar  MSP
15. Dr. V Raghavendra  MTH & STAT
16. Dr. P Munshi  NET
17. Dr. H Wanare  PHY
18. Dr. B Bhattacharya  M DES

(d) STUDENTS’ SENATE NOMINEES :

1. Mr. Prateek Bhansali  (Y3228)  prateekb@iitk.ac.in
2. Mr. B Shubham Gupta  (Y4424)  shubg@iitk.ac.in
3. Mr. Varun Khaitan  (Y5495)  varunkh@iitk.ac.in
The Faculty

There are thirteen departments and five interdisciplinary programmes offering degrees at various levels in the Institute.

The faculty strength of the Institute as on March 31, 2007 was 309. Out of these 16 are shared by two departments on a half time basis. There were also 41 Academic staff comprising of Research Engineers/Scientific Officers/Design Engineers and Library staff, who are treated at par with faculty, on March 31, 2007. 11 faculty members retired/resigned during the period. The Institute also had a number of Visiting Faculty members: 8 Visiting Faculty and 2 Adjunct Faculty joined and 3 left during the year. The Visiting/Adjunct Faculty contribute significantly and they also get an opportunity to know the Institute.

One Research Associate was appointed during the year. The Research Associates stay for a period of six months to two years.

AEROSPACE ENGINEERING DEPARTMENT    SANCTIONED STRENGTH : 20
                                        EXISTING STRENGTH  : 17+1

PROFESSOR  (Rs.18400-500-22400)
1. 3162 Vijay Gupta
2. 3159 K Ghosh
3. 1798 R K Sullerey
4. 4041 Dayanand Yadav
5. 4458 E Rathakrishnan
6. 4694 C Venkatesan
7. 4581 T K Sengupta
8. 4285 Sudhir Kamle
9. 4664 Kamal Poddar
10. 4696 Sanjay Mittal

ASSOCIATE PROFESSOR  (Rs.16400-450-20000)
1. 4660 Ashish Tewari
2. 4709 A K Ghosh
3. 4785 C S Upadhyay

ASSISTANT PROFESSOR  (Rs.12000-420-18300)
1. 4733 D P Mishra
2. 4958 Abhijit Kushari
3. 4993 Debopam Das
4. 5129* Sivasambu Mahesh

**BIOLOGICAL SCIENCE & BIO-ENGINEERING**

**SANCTIONED STRENGTH : 15**  
**EXISTING STRENGTH : 10**

**PROFESSOR (Rs.18400-500-22400)**
1. 4959 Pradip Sinha

**ASSOCIATE PROFESSOR (Rs.16400-450-20000)**
1. 5119 Ashok Kumar
2. 5005 R Sankararamakrishnan
3. 5009 K Subramaniam
4. 5020 Subramaniam Ganesh
5. 5023 Balaji Prakash

**ASSISTANT PROFESSOR (Rs.12000-420-18300)**
1. 5103 Dhirendra S Katti
2. 5194 Anupam Pal
3. 5206 Amitabha Bandyopadhyay
4. 5207 (Ms) Jonaki Sen

**CHEMICAL ENGINEERING DEPARTMENT**

**SANCTIONED STRENGTH : 32**  
**EXISTING STRENGTH : 19**

**PROFESSOR (Rs.18400-500-22400)**
1. 3113 S K Gupta
2. 2432 Anil Kumar
3. 3314 Deepak Kunzru
4. 3064 J P Gupta
5. 3754 P K Bhattacharya
6. 4244 R P Chhabra
7. 4045 Ashok Khanna
8. 4562 Ashutosh Sharma
9. 4750 Goutam Deo
ASSOCIATE PROFESSOR  (Rs.16400-450-20000)
1. 4794 Nishith Verma

ASSISTANT PROFESSOR  (Rs.12000-420-18300)
1. 5011 V Shankar
2. 5016 Nitin Kaistha
3. 5021 Sanjeev Garg
4. 5064 Rajdip Bandyopadhyaya
5. 5106 Animangsu Ghatak
6. 5114 Yogesh Moreshwar Joshi
7. 5175 Jayant K Singh
8. 5196 Siddharta Panda
9. 5208 Pankaj K Apte

CHEMISTRY DEPARTMENT                          SANTIONED STRENGTH : 30
EXISTING STRENGTH     : 27

PROFESSOR  (Rs.18400-500-22400)
1. 3827 N Sathyamurthy
2. 3791 S Sarkar
3. 3990 B D Gupta
4. 4008 Y D Vankar
5. 4325 T K Chandrashekar
6. 4394 V Chandrasekhar
7. 4448 R N Mukherjee
8. 4462 P K Bharadwaj
9. 4047 N S Gajbhiye
10. 3112 P Gupta Bhaya
11. 4460 S Manogaran
12. 4583 Veejendra K Yadav
13. 4596 Vinod K Singh
14. 4676 Amalendu Chandra
15. 4699 Tapas Chakraborty
16. 4759 S S Manoharan
17. 4746 Faiz Ahmed Khan

ASSOCIATE PROFESSOR  (Rs.16400-450-20000)
1. 4760 K Srihari
2. 4789 Sandeep Verma
3. 4816 J N Moorthy
4. 5071 Debabrata Goswami

ASSISTANT PROFESSOR (Rs.12000-420-18300)
1. 4876 R Gurunath
2. 5024 Manas Kumar Ghorai
3. 5038 Jitendra K Bera
4. 5056 M L N Rao
5. 5127 Sankar Prasad Rath

LECTURER
1. 5091 Anantharaman Ganapathi

CIVIL ENGINEERING DEPARTMENT

SANTIONED STRENGTH : 33
EXISTING STRENGTH : 28

PROFESSOR (Rs.18400-500-22400)
1. 3462 Ashwini Kumar
2. 4068 P K Basudhar
3. 4209 Sudhir K Jain
4. 4399 Sarvesh Chandra
5. 4546 Bithin Datta
6. 4295 Vinod Tare
7. 4303 Ramesh P Singh
8. 4586 V K Gupta
9. 4464 S K Chakrabarti
10. 4799 Mukesh Sharma
11. 4657 C V R Murty
12. 4662 Onkar Dikshit
13. 4663 Partha Chakroborty
14. 4695 Rajiv Sinha

ASSOCIATE PROFESSOR (Rs.16400-450-20000)
1. 4690 Sudhir Misra
2. 4798 Rajesh Srivastava
3. 4784 Soumyen Guha
4. 4775 Purnendu Bose
5. 4793 Ashu Jain
6. 4995 Durgesh C Rai
ASSISTANT PROFESSOR  (Rs.12000-420-18300)
1. 4871 Animesh Das
2. 4978 Javed N Malik
3. 5026 Bharat Lohani
4. 5057 Sachidanand Tripathi
5. 5079 Pranab Kumar Mohapatra
6. 5152 Amit Prashant
7. 5037 Nihar Ranjan Patra
8. 5192 Tarun Gupta

COMPUTER SCIENCE & ENGINEERING  SANTIONED STRENGTH : 18
EXISTING STRENGTH : 21 + 2 HT

PROFESSOR  (Rs.18400-500-22400)
1. *3858 S G Dhande
2. *3541 R M K Sinha
3. 3972 Somenath Biswas
4. 4297 H C Karnick
5. 4540 Pankaj Jalote
6. 4370 T V Prabhakar
7. 4563 S K Aggarwal
8. 4490 Sanjeev Saxena
9. 4628 Rajat Moona
10. 4754 Manindra Agrawal
11. 4627 Amitabha Mukerjee
12. 4300 Ratan Kumar Ghosh
13. 4385 Phalguni Gupta
14. 4645 Ajai K Jain
15. 4668 Dheeraj Sanghi
16. 4762 Sumit Ganguly
17. 5010 Shashank K Mehta

ASSOCIATE PROFESSOR  (Rs.16400-450-20000)
1. 4722 Deepak Gupta
2. 4934 Anil Seth

ASSISTANT PROFESSOR  (Rs.12000-420-18300)
1. 5051 Bhaskaran Raman
2. 5112 Mainak Chaudhuri
<table>
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<td>3.</td>
<td>5197</td>
<td>Surender Baswana</td>
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<tr>
<td>4.</td>
<td>5222</td>
<td>Peeyush P Kurur</td>
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</tbody>
</table>

**ELECTRICAL ENGINEERING**

**SANCTIONED STRENGTH : 53**

**EXISTING STRENGTH : 30 + 2 HT**

**PROFESSOR (Rs.18400-500-22400)**

1. *3541* R M K Sinha  
2. 3927 Avinash Joshi  
3. 4293 Arindam Ghosh  
4. 4326 M Sachidananda  
5. 4495 S C Srivastava  
6. 4667 Anjan Kumar Ghosh  
7. 4486 Prem Kumar Kalra  
8. 4691 Shafi Qureshi  
9. 3873 (Ms) Sumana Gupta  
10. 4372 Govind Sharma  
11. *4687* Utpal Das  
12. 4566 A K Dutta  
13. 3999 Joseph John  
14. 4652 Animesh Biswas  
15. 4478 Pradip Sircar  
16. 4670 Baquer Mazhari  
17. 4827 A K Chaturvedi  

**ASSOCIATE PROFESSOR (Rs.16400-450-20000)**

1. 4489 R K Bansal  
2. 4745 S Umesh  
3. 5003 S N Singh  
4. 4776 Shyama P Das  
5. 4771 Yatindra N Singh  
6. 4988 Laxmidhar Behera  

**ASSISTANT PROFESSOR (Rs.12000-420-18300)**

1. 4833 K S Venkatesh  
2. 4938 K Vasudevan  
3. 5012 Parthasarathi Sensarma  
4. 5013 A R Harish  
5. 5015 (Ms) Nandini Gupta  

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### HUMANITIES & SOCIAL SCIENCES

**SANCTIONED STRENGTH : 31**

**EXISTING STRENGTH : 22+2**

#### PROFESSOR (Rs.18400-500-22400)
1. 3838 (Ms) Lilavati Krishnan
2. 3989 Binayak Rath
3. 3983 A K Sharma
4. 4373 K K Saxena
5. 4016 A K Sinha
6. 4375 B H Boruah
7. 4791 B K Pattnaik
8. 4729 G Neelakanthan
9. 4488 Surajit Sinha
10. 4700 (Ms) Achla M Raina

#### ASSOCIATE PROFESSOR (Rs.16400-450-20000)
1. 4702 (Ms) Shikha Dixit
2. 4773 Munmun Jha
3. 4774 C A Tomy

#### ASSISTANT PROFESSOR (Rs.12000-420-18300)
1. 4927 (Ms) Mini Chandran
2. 4957 (Ms) Suchitra Mathur
3. 5075 P M Prasad
4. 5076 T Ravichandran
5. 5078 Sanjay Kumar Singh
6. 5077 Amman Madan
7. 5181 Braj Bhusan
8. 5191 Sumit Sarkar
9. 5193 Rajesh Kumar
10. *4976 Satyaki Roy

#### LECTURER (Rs.10000-325-15200)
1. *5183 (Ms) Koumudi Prakash Patil
INDUSTRIAL & MANAGEMENT ENGINEERING

SANTIONED STRENGTH : 18
EXISTING STRENGTH : 16

PROFESSOR  (Rs.18400-500-22400)
1. 3432 A K Mittal
2. 3977 N K Sharma
3. 4380 T P Bagchi
4. 3792 Kripa Shanker
5. 4042 Arun P Sinha
6. 4525 R R K Sharma
7. 4961 Jayanta Chatterjee

ASSOCIATE PROFESSOR  (Rs.16400-450-20000)
1. 4701 Rahul Varman
2. 4830 Sanjeev Swami

ASSISTANT PROFESSOR    (Rs.12000-420-18300)
1. 4865 (Ms) Veena Bansal
2. 4968 Anoop Singh
3. 5018 Rohit Varman
4. 5073 Raghu Nandan Sengupta
5. 5142 Peeyush Mehta
6. 5147 B V Phani
7. 5182 (Ms) Runa Sarkar

MATERIALS & METALLURGICAL ENGINEERING

SANTIONED STRENGTH : 32
EXISTING STRENGTH : 17

PROFESSOR  (Rs.18400-500-22400)
1. 1932 S P Mehrotra
2. 3845 R C Sharma
3. 3763 R K Dube
4. 4182 Brahma Deo
5. 4245 S C Koria
6. 4524 S Bhargava
7. 4382 Dipak Mazumdar
8. 4565 Rajiv Shekhar
9. 4597 Sandeep Sangal
10. 4571 R Balasubramaniam
11. 4665 Barada K Mishra
12. 4790 Deepak Gupta
13. 4796 (Ms) Monica Katiyar

ASSOCIATE PROFESSOR (Rs.16400-450-20000)
1. 4919 Anish Upadhyaya

ASSISTANT PROFESSOR (Rs.12000-420-18300)
1. 4977 Bikaramjit Basu
2. 5034 Ashish Garg
3. 5072 Gauthama

MATHEMATICS & STATISTICS DEPARTMENT
SANTIONED STRENGTH : 36
EXISTING STRENGTH : 30

PROFESSOR (Rs.18400-500-22400)
1. 3407 R K S Rathore
2. 3772 (Ms) Manjul Gupta
3. 3739 M K Kadalbajoo
4. 3773 Prawal Sinha
5. 3776 G P Kapoor
6. 4058 Peeyush Chandra
7. 4074 V Raghavendra
8. 3824 I D Dhariyal
9. 4290 (Ms) Shobha Madan
10. 4584 Debasish Kundu
11. 4449 Pravir Kumar Dutt
12. 4726 Neeraj Misra

ASSOCIATE PROFESSOR (Rs.16400-450-20000)
1. 4707 B V Rathish Kumar
2. 4782 D Bahuguna
3. 4656 P Shunmugaraj
4. 4734 Arbind Kumar Lal
5. 4803 Alok Kumar Maloo
ASSISTANT PROFESSOR  (Rs.12000-420-18300)
1. 4537  (Ms) Aparna Dar
2. 4781  (Ms) Mohua Banerjee
3. 4822  G Santhanam
4. 4832  (Mrs) Rama Rawat
5. 4870  S Ghorai
6. 4930  Swagato Kumar Ray
7. 5029  Joydeep Dutta
8. 5036  Shalabh
9. 5153  Amit Mitra
10. 5121  (Ms) Nandini Nilakantan
11. 5189  Parasar Mohanty
12. 5200  Anil Kumar Ghosh

LECTURER  (Rs.10000-325-15200)
1. 5128  Shital Rajeshbhai Patel

MECHANICAL ENGINEERING  SANTIONED STRENGTH : 42
EXISTING STRENGTH : 31 + 3 HT

PROFESSOR  (Rs.18400-500-22400)
1. 2265  A K Mallik
2. *3858  S G Dhande
3. 3764  Prashant Kumar
4. 3759  B N Banerjee
5. 3862  M S Kalra
6. 4093  V K Jain
7. 4224  N N Kishore
8. 4286  Himanshu Hatwal
9. 4210  P M Dixit
10. 4398  K Muralishar
11. 4560  Gautam Biswas
12. 4061  Prabhat Munshi
13. 4810  B P Pundir
14. 4452  S K Choudhury
15. 4459  N S Vyas
16. 4482  Vinayak Eswaran
17. 4650  Kalyanmoy Deb
18. 4288  P S Ghoshdastidar

48
ASSOCIATE PROFESSOR  (Rs.16400-450-20000)
1. 4788 Subrata Sarkar
2. 4801 P K Panigrahi
3. 4779 Bhaskar Dasgupta
4. 4823 V Venkata Reddy

ASSISTANT PROFESSOR  (Rs.12000-420-18300)
1. 4890 Bishakh Bhattacharya
2. 4931 Avinash Kumar Agarwal
3. 4956 Anupam Saxena
4. 5014 Sumit Basu
5. *4928 Kamal K Kar
6. 5022 Ashish Datta
7. 5054 P Venkitanarayanan
8. 5074 J Ramkumar
9. 5120 Sameer Khandekar
10. 5122 Arun Kumar Saha
11. 5129* Sivasambu Mahesh
12. 5199 Ishan Sharma

PHYSICS

SANTIONED STRENGTH : 38
EXISTING STRENGTH : 32 + 1 HT

PROFESSOR  (Rs.18400-500-22400)
1  3980  R K Thareja
2.  4019  S D Joglekar
3.  4064  Keshawa Shahi
4.  4254  Rajendra Prasad
5.  4642  Debashish Chowdhury
6.  4688  R C Budhani
7.  4559  Y N Mohapatra
8.  4651  Avinash Singh
9.  4315  V N Kulkarni
10.  4527  Deshdeep Sahdev
11.  4504  V Ravishankar
12.  4552  Satyendra Kumar
13.  4708  Pankaj Jain
14.  4723  H C Verma
15. 4881 M K Harbola

ASSOCIATE PROFESSOR (Rs.16400-450-20000)
1. 4653 K P Rajeev
2. 4692 Mahendra K Verma
3. *4679 (Ms) Asima Pradhan
4. 4831 Sreerup Raychoudhuri

ASSISTANT PROFESSOR (Rs.12000-420-18300)
1. 4755 V Subrahmanyam
2. 4797 Gautam Sengupta
3. 4893 Harshwardhan Wanare
4. 4964 V V Sreedhar
5. 5028 (Ms) Sutapa Mukherjee
6. 5035 S Sivaparakasam
7. 5040 S Anantha Ramakrishna
8. 5041 Amit Dutta
9. 5046 Anjan Kumar Gupta
10. 5102 Zakir Hossain
11. 5115 Tapobrata Sarkar
12. 5117 Satyajit Banerjee
13. 5123 Sudeep Bhattacharjee
14. 5167 Rajeev Gupta

MATERIALS SCIENCE PROGRAMME
SANCTIONED STRENGTH: 06
EXISTING STRENGTH: 01 + 1 HT

PROFESSOR (Rs.18400-500-22400)
1. 3762 Jitendra Kumar

ASSISTANT PROFESSOR (Rs.12000-420-18300)
1. *4928 Kamal K Kar

LASER TECHNOLOGY PROGRAMME
SANCTIONED STRENGTH:
EXISTING STRENGTH: + 02 HT

PROFESSOR (Rs.18400-500-22400)
1. *4687 Utpal Das
ASSOCIATE PROFESSOR  (Rs.16400-450-20000)
1.  *4679  (Ms) Asima Pradhan

NUCLEAR ENGG & TECHNOLOGY PROGRAMME
SANTIONED STRENGTH : --
EXISTING STRENGTH : --

PROFESSOR  (Rs.18400-500-22400) --

DESIGN PROGRAMME
SANTIONED STRENGTH
EXISTING STRENGTH : +2 HT

ASSISTANT PROFESSOR  (Rs.12000-420-18300)
1.  *4976  Satyaki Roy

LECTURER  (Rs.10000-325-15200)
1.  *5183  (Ms) Koumudi Prakash Patil

While Nuclear Engineering & Technology and Environmental Engineering Management interdisciplinary programmes offer separate postgraduate degrees for administrative purpose these are under the administrative control of Mechanical Engineering and Civil Engineering Departments respectively.

* Half Time

LIST OF ACADEMIC STAFF AS ON MARCH 31, 2007

<table>
<thead>
<tr>
<th>Sl No.</th>
<th>Name &amp; Designation</th>
<th>Department/ Programme</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Alok Gupta, Research Engineer Gr-II</td>
<td>A E</td>
</tr>
<tr>
<td>2.</td>
<td>K K Soundra Pandian, Research Engineer Gr-II</td>
<td>M E</td>
</tr>
<tr>
<td>3.</td>
<td>Chaturi Singh, Research Engineer Gr-I</td>
<td>NWTF</td>
</tr>
<tr>
<td>4.</td>
<td>Rajeev Gupta, Senior Research Engineer</td>
<td>A E (NWTF)</td>
</tr>
<tr>
<td>5.</td>
<td>Sushmit Sen, Senior Research Engineer</td>
<td>Robotics</td>
</tr>
<tr>
<td>6.</td>
<td>Raghuvir Singh Anand, Senior Research Engineer</td>
<td>E E</td>
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<td>7.</td>
<td>Anjali V Kulkarni, Senior Research Engineer</td>
<td>Mechatronics</td>
</tr>
<tr>
<td>8.</td>
<td>Aurobinda Chatterjee, Senior Research Engineer</td>
<td>M E</td>
</tr>
<tr>
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<td>9</td>
<td>5118</td>
<td>Ajay Misra, Senior Research Engineer</td>
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<td>Amitabha Roy, Principal Research Engineer</td>
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<td>Vishal Saxena, Principal Research Engineer</td>
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<td>Brajesh Chandra, Principal Research Engineer</td>
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<td>V Raghuram, Principal Research Engineer</td>
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<td>M N Mungole, Senior Research Engineer</td>
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<td>Shobhit Das, Chief Engineer</td>
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<td>16</td>
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<td>A L Bhavsar, Scientific Officer Gr.I</td>
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<td>K K Bajpai, Senior Scientific Officer</td>
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<td>Sanjay Gupta, Chief Scientific Officer</td>
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<td>K V Rao, Chief Scientific Officer</td>
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<td>H P S Parihar, Computer Engineer Gr.I</td>
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<td>N P Roberts, Principal Computer Engineer</td>
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<td>K S Singh, Principal Computer Engineer</td>
</tr>
<tr>
<td>33</td>
<td>2037</td>
<td>Y D S Arya, Principal Computer Engineer</td>
</tr>
<tr>
<td>34</td>
<td>4817</td>
<td>Navpreet Singh, Principal Computer Engineer</td>
</tr>
<tr>
<td>35</td>
<td>5030</td>
<td>Vipul Mathur, Aircraft Maintenance Engineer</td>
</tr>
<tr>
<td>36</td>
<td>0834</td>
<td>Rajeshwar Misra, Librarian</td>
</tr>
<tr>
<td>37</td>
<td>3981</td>
<td>S K Bose, Deputy Librarian</td>
</tr>
<tr>
<td>38</td>
<td>3969</td>
<td>Umed Singh, Assistant Librarian</td>
</tr>
<tr>
<td>39</td>
<td>3974</td>
<td>(Ms) Neelam Prasad, Assistant Librarian</td>
</tr>
<tr>
<td>40</td>
<td>5148</td>
<td>S K Vijaianand, Assistant Librarian</td>
</tr>
<tr>
<td>41</td>
<td>5157</td>
<td>(Ms) Maitrayee Mondal Ghosh, Assistant Librarian</td>
</tr>
</tbody>
</table>
Academic Programme

EDUCATIONAL GOALS

Education in the Engineering stream should produce trained manpower for maintaining and advancing technological growth. The scope of engineering education should evolve based on the evaluation of technological growth for their usefulness and relevance to the prosperity of the country. The educational strategy in this context should help to develop a knowledge industry and the systems involved in this endeavor should strive for furtherance of knowledge.

The academic goals of the Indian Institute of Technology Kanpur from the viewpoint of its teaching programme are as the following:

To prepare the students for the highest level of excellence in science, and technology and produce competent, creative and imaginative scientists and engineers.

To promote a spirit of free and objective inquiry in different fields amongst the students and motivate them for higher studies and research.

To foster inter-disciplinary approach. To promote the concept of virtual research departments by bringing together faculty and students into activities of mutual interest.

TEACHING PROGRAMMES

The Institute offers instruction in various disciplines of science and engineering, both at undergraduate (UG) and postgraduate (PG) levels. These programmes are planned and implemented by the Academic Senate of the Institute Micro-management and these programmes is carried out by the Senate Undergraduate Committee (SUGC) and the Senate Post-graduate Committee (SPGC), respectively.

Undergraduate Programme

The four-year undergraduate programme consists of two parts having duration of four semesters each. The first part is the Core programme common to all students, and is carefully planned to give the students a strong base of basic education in mathematics, physics, chemistry, engineering sciences,
technical arts, humanities and social sciences. The second part of the undergraduate programme consists of the Professional courses and a project in the chosen branch of specialization. At the Bachelor’s level, we have B.Tech. programs in Aerospace, Chemical, Civil, Computer Science, Electrical, Metallurgy and Mechanical Engineering. We also have integrated M.Sc. programs in Physics, Chemistry, Mathematics and Statistics. From July 2005, we have started an integrated M.Sc. program in Economics. The students for these programs are selected through JEE and usually they are of very high quality.

Two-Year M.Sc. Programme

There are programs for M. Sc. (2 years) in Physics, Chemistry, Mathematics and Statistics, where the students with B.Sc. (Hons.) background are chosen through an all-India examination known as JAM. These programmes have been largely responsible for the scientific manpower in Indian research institutes and universities.

Postgraduate Programme

The postgraduate programme is intended to prepare students to enter their professions with a perspective and breadth of knowledge related to the principal divisions of their respective fields of specialization through courses and specialized research experience. A postgraduate student is typically enrolled for three or four courses each semester until the student advances to a point where the principal requirements of the programme left to be fulfilled are research and thesis.

M.Tech. Programme

We have M.Tech. Programmes in all the Engineering Branches, mentioned above. In addition, there are M. Tech. Programs in the interdisciplinary areas, such as, Nuclear Engineering, Biological Sciences and Bioengineering, Laser Technology, Environmental Engineering, Materials Science, and Industrial and Management Engineering. The M. Tech. students are chosen through an all-India examination, known as GATE.

B.Tech.-M.Tech.

We have also adopted a dual degree (B.Tech.-M. Tech.) program. In this program, the students admitted through JEE, are expected to complete the M.
Tech. Program in five years. At the end of five years, the student is awarded both B.Tech. and M.Tech. Degrees.

**MBA and MDES Programme**

We have introduced two interdisciplinary programs, namely, for MBA and Master of Design. For these courses as well, the students are selected through the all-India examinations known as JMET and CEED respectively.

**Doctor of Philosophy (Ph.D.)**

The academic programmes leading to the Degree of Doctor of Philosophy (Ph.D.) exists in all the engineering departments and two interdisciplinary programmes, namely, Materials Science and Nuclear Engineering & Technology. The Ph.D. programmes also exist in Chemistry, Mathematics, Physics, Statistics, Economics, English, Philosophy, Psychology and Sociology.

**Ph.D. (Dual Degree)**

The Ph.D. programme culminates in research on a selected topic leading to a thesis submitted in partial fulfillment of the requirements for the degree.

The Department of Physics offers a M.Sc.-Ph.D. dual degree program, the admission is through JAM, it also allows their M.Sc. students to continue for a Ph.D. degree.

The M. Tech. and Ph.D. students receive research/teaching assistantships.

**D.I.I.T. Programme**

The Institute started a D.IIT programme in Video Communications Systems with effect from first semester 1992-93. The duration of the Course is one year. The DIIT Programme is based on existing PG Course for M.Tech. Programme. This programme is monitored by the Department of Electrical Engineering.

**Research Environment in IIT Kanpur**

IIT Kanpur has demonstrated its excellence in research in many areas. To cite a few areas: Finite Element Methods Using Domain Decomposition, Flow Induced Vibrations, Wind Tunnel Testing of Large Scale Prototypes, Computational Chemistry, Nano-materials and Nano-technology, Geometric Optimization of Large Organic Systems, Genomics and Bio-Informatics, Electronic Structure Calculations, Aggregation and Etching, Molecular Dynamics, Thin Film Dynamics, Optical/EM Field Calculations,
Computational Fluid Dynamics and Heat Transfer, Computer Aided Design and Rapid Prototyping, Tomography, Robotics, Multi-Body Dynamics, Geo-seismic Prospecting, Stress Analysis and Composite Materials, Vibration and Control, Semiconductor Physics, Photonics, Neural Networks and Genetic Algorithms, Earthquake Engineering, Impurities in Anti-Ferro Magnet, Raman Scattering, Particle Physics, Spin Fluctuation in Quantum Magnets, Quantum Computation and so on.

The most recent initiative of IIT Kanpur has been the Formation of a Strong Research Group in the areas of Nanoscience and Nanotechnology.

**Curriculum Development and Monitoring Committee (CDMC)**

The Curriculum Development and Monitoring Committee (CDMC) has been formed in order to monitor the curriculum continually. The Committee will solicit a report annually from all Core Course Subcommittees regarding their respective core courses. These reports include all relevant information pertaining to the teaching of the courses, tutorials, laboratories and other aspects. The Committee will work over the period with effect from 01/04/2007 for a tenure of 2 years

The following is the composition of the CDMC:

- Prof. R K Dube (MME) Chairman
- Prof. S Roychoudhuri (Physics) Co Chairman
- Prof. Sumit Ganguli (CSE) Member
- Prof. A K Mallik (ME)
- Prof. L Krishnan (HSS)
- Prof. Santosh Kr. Gupta (ChE)
- Prof. Alok Datta (EE)
- Prof. Sanjay Mittal (AE)
- Prof. D Kundu (Maths & Stat.)

**New Initiatives**

(a) **M.Sc. in Economics**

IIT Kanpur has introduced a M Sc (5 year integrated) program in Economics from July 2005. This program is providing a strong ground in basic sciences, engineering as well as in various emerging areas of Economics.
The knowledge of Economics and use of Technology for creation of wealth are necessary preconditions for breaking the chain of poverty and low standard of living in the developing countries. Economics and Technology have always migrated together from one country to another, from Europe to United States, from United States to Japan and from Japan to Asian Tigers. Today India is in the midst of this tremendous migration of global know-how. American and European companies are increasingly carrying out their design and manufacturing work in India.

India has a great tradition in Economics Education and Research. Prof. Amartya Sen, Prof. Jagdish N. Bhagwati are among the finest and best known Economists in the World, and their Hon’ble Prime Minister is himself an eminent economist.

Today’s India needs trained mind that perfect blend Technology and Economics. The Integrated MSc program in Economics is a step in that direction. Twenty-five students will be admitted through the Joint Entrance Examination and there will be no prerequisite of Economics as a subject at the higher secondary level. The four streams of Economics are focused. They are Econometrics and quantitative techniques; Industrial economics and business policy; Development infrastructure and public policy and Environment and resource economics. The credit requirement for the graduation is 199 Credit Points. First four semesters would be common with the other branches of BTech and MSc Integrated programmes.

(b) Environmental Science and Environmental Engineering

The Scope of Environmental Science and Environmental Engineering is inherently interdisciplinary and expanding rapidly. Recognizing the challenges for environmentally sustainable development, IIT Kanpur initiated an interdisciplinary M.Tech. Programme in Environmental Engineering and Management in 1997. This experience has convinced the Institute that there is a pressing need to integrate environmental engineering and science across various disciplines to solve problems that have important societal impact.

A National Advisory Committee (NAC) was constituted by IIT Kanpur to identify the strategies related to the education in Environmental Sciences and Environmental Engineering. The NAC further recommended that in order to
ensure full and unrestricted growth of environmental science and engineering disciplines, a separate initiative be started.

The sustainability of any academic programme and its viability would depend on better and comprehensive integration of the interdisciplinary aspects of such a programme. It is also essential that research should focus on new emerging areas, which can respond to the varying societal environmental concerns. Faculty members drawn from the current EEM program, and Departments such as Chemistry, Chemical Engineering, Civil Engineering, Physics, Biological Sciences and Bio-Engineering and Mechanical Engineering can provide the best combination to initiate a world class teaching and research academic program in Environmental Science and Environmental Engineering, once proper facilities are created.

It is proposed to initiate a new multidisciplinary facility for Environmental Science and Environmental Engineering at IIT Kanpur, with a focus on the following areas:

Green Technologies
Assessment, monitoring and modeling of environmental quality
Pollution control and remediation
Health risk assessments due to modern technologies and products
Ecological modeling,
Atmospheric Sciences – monsoon dynamics, global warning, ozone depletion)
Land reclamation
Water Resources – groundwater as well as surface water
Environmental Geosciences – Earth systems
Environmental Chemistry

To attain these objectives, a comprehensive infrastructure facility including state-of-the-art laboratory will be required. The equipment proposed to be purchased will also be utilized for the on-going research activities in other Departments of the Institute.

**National Programme on Earthquake Engineering Education**

IIT Kanpur earnestly believes that every Institute of National Importance has an obligation to render necessary service to the country in a crisis. Our country
is prone to strong earthquakes, and we need to contain the risks this involves. A trained manpower development programme for earthquake risk mitigation, known as NPEEE (National Programme on Earthquake Engineering Education), has been instituted by the Government of India. IIT Kanpur is the nodal agency for the entire gamut of NPEEE activities. The enthusiastic faculty members of the Institute have made enormous contribution in the Earthquake Engineering Education in the country. Their work in the Andaman Islands during the Tsunami calamity deserves deep appreciation.

**Outreach and National Program on Technology Enhanced Learning**

Meaningful growth of an Institution depends on the kind of commitment it has made to the society at large. Benefits of academic excellence cannot remain restricted to the boundaries of the academic wall. In an electronic age that has seen walls razed cross states and countries, an institute like IIT Kanpur has a supreme role in providing leadership that addresses societal concerns. As part of our social responsibility, we want to share our expertise with fellow academic institutions across the country and abroad. Towards this goal, we have initiated an Outreach Education Program. Under this scheme, using the VSAT transmission technology, we are providing lecture courses in the area of engineering and biological sciences to the college and university students in the State of Chhattisgarh. IIT Kanpur is promise bound to transmit some advanced courses to the students of newly founded Pandit Dwarka Prasad Mishra Indian Institute of Information Technology, Design and Management (PDPMIITDM), Jabalpur. IIT Kanpur is also participating in a new project, known as Indo-French Cyber University. This will foster international collaboration in the areas of emerging technologies. The program will include transmission of courses between IIT-Kanpur and the Université Pierre et Marie Curie (Paris). The courses will be taught in English to the advanced Master’s students in both countries by the French and Indian professors.

IIT Kanpur is also participating in the National Program on Technology Enhanced Learning (NPTEL) sponsored by the Ministry of Human Resource Development. Knowledge grows faster when shared. The NPTEL (National Program on Technology Enhanced Learning) is an initiative of the MHRD to promulgate quality education among the Engineering Colleges of the country through the Video and Web-based learning material in some of the popular
disciplines. In particular, MHRD wants to monitor the standard of Engineering Education in many colleges where well-trained faculty members are not available in many subjects. The task is double-sided in nature. On one hand, the standards of the colleges are to be uplifted, while on the other hand the courses have to be acceptable to the end users. Seven IITs and IISc Bangalore are the major players in this endeavor. The courses prepared at IIT Kanpur, are being transmitted through the educational TV Channel, Eklavya on regular basis. These courses have earned appreciation from a wide range of learners.

ADMISSION

Undergraduate

Admissions for all the B.Tech. M.Sc. (5-year integrated) and B.Tech.-M.Tech. (Dual Degree) programmes at IIT Kanpur for the academic session 2006-2007 were made by the Joint Admission Committee for all IITs and IT-BHU.

The Joint Entrance Examination (JEE) -2006 was held on April 10, 2006. The following offers of admission were made from IIT Kanpur:

<table>
<thead>
<tr>
<th>Department/Disciplines</th>
<th>Total Number of Candidates-Direct Admission</th>
</tr>
</thead>
<tbody>
<tr>
<td>Programmes</td>
<td>JEE-2006</td>
</tr>
<tr>
<td></td>
<td>Gen</td>
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<tr>
<td>B.Tech.</td>
<td></td>
</tr>
<tr>
<td>Aerospace Engg.</td>
<td>18</td>
</tr>
<tr>
<td>BSBE</td>
<td>20</td>
</tr>
<tr>
<td>Chemical Engg.</td>
<td>30</td>
</tr>
<tr>
<td>Civil Engg.</td>
<td>42</td>
</tr>
<tr>
<td>Computer Sc. &amp; Engg.</td>
<td>26</td>
</tr>
<tr>
<td>Electrical Engg.</td>
<td>49</td>
</tr>
<tr>
<td>Mechanical Engg.</td>
<td>37</td>
</tr>
<tr>
<td>Course</td>
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</tr>
<tr>
<td>--------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>Materials &amp; Met. Engg.</td>
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</tr>
<tr>
<td><strong>M.Sc. Integrated</strong></td>
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</tr>
<tr>
<td>Chemistry</td>
<td>14</td>
</tr>
<tr>
<td>Mathematics &amp; Scientific Computing</td>
<td>25</td>
</tr>
<tr>
<td>Economics</td>
<td>17</td>
</tr>
<tr>
<td>Physics</td>
<td>15</td>
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<td><strong>Total</strong></td>
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<tr>
<td><strong>B.Tech.-M.Tech. (Dual Degree)</strong></td>
<td></td>
</tr>
<tr>
<td>Aerospace Engg.</td>
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</tr>
<tr>
<td>Chemical Engg.</td>
<td>08</td>
</tr>
<tr>
<td>Civil Engg.</td>
<td>12</td>
</tr>
<tr>
<td>Computer Sc. &amp; Engg.</td>
<td>21</td>
</tr>
<tr>
<td>Electrical Engg.</td>
<td>17</td>
</tr>
<tr>
<td>Mechanical Engg.</td>
<td>13</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>77</td>
</tr>
</tbody>
</table>
Two-Year M.Sc. Programme

Admissions to the 2-year M.Sc. and M.Sc.-Ph.D. (Dual Degree) programmes were made on the basis of JAM performance. Admission statistics for the M.Sc. (2 year) and M.Sc.-Ph.D. (Dual Degree) Physics programmes during 2006-2007 are as under:

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Department/Group</th>
<th>Numbers of Admission Offered</th>
<th>Actual Number of Students Joined</th>
</tr>
</thead>
<tbody>
<tr>
<td>M.Sc. (2-year)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Chemistry</td>
<td>27</td>
<td>27</td>
</tr>
<tr>
<td>2</td>
<td>Mathematics</td>
<td>25</td>
<td>22</td>
</tr>
<tr>
<td>3</td>
<td>Physics</td>
<td>19</td>
<td>03</td>
</tr>
<tr>
<td>4</td>
<td>Statistics</td>
<td>22</td>
<td>18</td>
</tr>
<tr>
<td>Total</td>
<td>93</td>
<td>70</td>
<td></td>
</tr>
</tbody>
</table>

| M.Sc. – Ph. D. (Dual Degree) |  |
| 1 | Physics | 09 | 06 |
| Total | 09 | 06 |

Post Graduate

The number of students admitted to the Postgraduate Programme in the First and Second Semesters 2006-2007 is given below:

ENGINEERING

<table>
<thead>
<tr>
<th>Department / Group</th>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aerospace Engg.</td>
<td>21</td>
<td>02</td>
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<td>B.S.B.E.</td>
<td>13</td>
<td>08</td>
</tr>
<tr>
<td>Chemical Engg.</td>
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<td>04</td>
</tr>
<tr>
<td>Course</td>
<td>First Semester</td>
<td>Second Semester</td>
</tr>
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<td>-----------------</td>
</tr>
<tr>
<td>Chemistry</td>
<td>-</td>
<td>15</td>
</tr>
<tr>
<td>Mathematics</td>
<td>-</td>
<td>04</td>
</tr>
<tr>
<td>Statistics</td>
<td>-</td>
<td>02</td>
</tr>
<tr>
<td>Physics</td>
<td>-</td>
<td>05</td>
</tr>
<tr>
<td>M.Sc.-Ph.D. Dual Degree in Physics</td>
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<td>02</td>
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<td>H.S.S.</td>
<td>-</td>
<td>08</td>
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**SCIENCES**

<table>
<thead>
<tr>
<th>Department / Group</th>
<th>First Semester</th>
<th>Second Semester</th>
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</thead>
<tbody>
<tr>
<td>Chemistry</td>
<td>12</td>
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<tr>
<td>Mathematics</td>
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<tr>
<td>Statistics</td>
<td>07</td>
<td>03</td>
</tr>
<tr>
<td>N.E.T.</td>
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<td>-</td>
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<tr>
<td>E.E.M.</td>
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<td>10</td>
</tr>
<tr>
<td>M.B.A. (IME)</td>
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<tr>
<td><strong>Total</strong></td>
<td>364</td>
<td>84</td>
</tr>
</tbody>
</table>
The total department/programme wise strength of the Post Graduate students during the year 2006-2007 is given below:

**ENGINEERING**

<table>
<thead>
<tr>
<th>Department / Group</th>
<th>First Semester</th>
<th></th>
<th>Second Semester</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Aerospace Engg.</td>
<td>48</td>
<td>35</td>
<td>83</td>
<td>43</td>
</tr>
<tr>
<td>B.S.B.E.</td>
<td>22</td>
<td>40</td>
<td>62</td>
<td>21</td>
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<tr>
<td>Chemical Engg.</td>
<td>48</td>
<td>40</td>
<td>88</td>
<td>58</td>
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<tr>
<td>Civil Engg.</td>
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<td>128</td>
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<td>Computer Sc. &amp; Engg.</td>
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<td>100</td>
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<tr>
<td>Design (M.Des.)</td>
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<td>Electrical Engg.</td>
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<td>Mechanical Engg.</td>
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<td>189</td>
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<td>Materials &amp; Met. Engg.</td>
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<td>I.M.E.</td>
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<td>Laser Technology</td>
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<td>14</td>
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<td>Material Science</td>
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<td>11</td>
<td>33</td>
<td>26</td>
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<tr>
<td>N.E.T.</td>
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<td>12</td>
<td>19</td>
</tr>
<tr>
<td>E.E.M.</td>
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<td></td>
<td>29</td>
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<tr>
<td>M.B.A. (IME)</td>
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<td>62</td>
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<tr>
<td><strong>Total</strong></td>
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<td>336</td>
<td>1146</td>
<td>773</td>
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## SCIENCES

<table>
<thead>
<tr>
<th>Department / Group</th>
<th>First Semester</th>
<th></th>
<th>Second Semester</th>
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</thead>
<tbody>
<tr>
<td>Chemistry</td>
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<td></td>
<td>152</td>
<td>156</td>
</tr>
<tr>
<td>Mathematics &amp; Statistics</td>
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<td></td>
<td>57</td>
<td>59</td>
</tr>
<tr>
<td>Statistics</td>
<td>7</td>
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<td>6</td>
</tr>
<tr>
<td>Physics</td>
<td>40</td>
<td></td>
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<td>41</td>
</tr>
<tr>
<td>M.Sc.-Ph.D. Dual Degree in Physics</td>
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<td>30</td>
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<tr>
<td>H.S.S.</td>
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</tr>
<tr>
<td>Total</td>
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<tr>
<td><strong>Grand Total</strong></td>
<td><strong>810</strong></td>
<td><strong>666</strong></td>
<td><strong>1476</strong></td>
<td><strong>773</strong></td>
</tr>
</tbody>
</table>

Strength of Undergraduate and Postgraduate Students during 2006 – 2007 – I:

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Aerospace</td>
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<td>-</td>
<td>43</td>
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<td>Chemical</td>
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<td>51</td>
<td>-</td>
<td>-</td>
<td>58</td>
<td>38</td>
<td>-</td>
<td>306</td>
</tr>
<tr>
<td>Chemistry</td>
<td>61</td>
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<td>-</td>
<td>70</td>
<td>42</td>
<td>-</td>
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<td>C.S.E.</td>
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<td>116</td>
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### GRADUATION

During the year 2006-2007, 913 students completed the requirements for the award of B.Tech., M.Sc., DIIT, MBA, M.Tech., and Ph.D. degrees as detailed below:

<table>
<thead>
<tr>
<th>Program</th>
<th>Number</th>
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</thead>
<tbody>
<tr>
<td>B.Tech.</td>
<td>306</td>
</tr>
<tr>
<td>M.Sc. (2 yr. &amp; 5 yr.)</td>
<td>122</td>
</tr>
<tr>
<td>M.Tech. (Dual)</td>
<td>41</td>
</tr>
<tr>
<td>MBA</td>
<td>32</td>
</tr>
<tr>
<td>M.Des.</td>
<td>312</td>
</tr>
<tr>
<td>Ph.D.</td>
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<tr>
<td>Total</td>
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Annual Report 2006-2007

<table>
<thead>
<tr>
<th>Program</th>
<th>Number</th>
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<td>E.E.</td>
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<td>I.M.E.</td>
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<td>Laser Tech.</td>
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<td>M.S.P.</td>
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</tr>
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<td>N.E.T.</td>
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<table>
<thead>
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<th>Program</th>
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<tr>
<td>B.Tech.</td>
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### COURSES OFFERED

The following Table gives a picture of the courses offered during 2006-2007 at the undergraduate as well as postgraduate level:

#### UNDERGRADUATE LEVEL

<table>
<thead>
<tr>
<th>Core Curriculum / Department Courses</th>
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<th>Second Sem.</th>
<th>Summer</th>
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<td>24</td>
<td>01</td>
<td>51</td>
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<tr>
<td>Materials &amp; Metallurgical Engineering</td>
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<td>16</td>
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<td>01</td>
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<td>17</td>
<td>02</td>
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<tr>
<td>Industrial &amp; Management Engineering</td>
<td>12</td>
<td>09</td>
<td>-</td>
<td>21</td>
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<tr>
<td>Nuclear Engineering &amp; Technology</td>
<td>-</td>
<td>01</td>
<td>-</td>
<td>01</td>
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<td>Materials Science Program</td>
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<td>03</td>
<td>-</td>
<td>04</td>
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<tr>
<td>Laser Technology Program</td>
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<td>CPA</td>
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### POST GRADUATE LEVEL

<table>
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<th>Second Sem.</th>
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<td>Civil Engineering</td>
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<tr>
<td>Computer Science &amp; Engineering</td>
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<tr>
<td>Design (M.Des.)</td>
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<td>Electrical Engineering</td>
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<tr>
<td>Environmental Engg. &amp; Management</td>
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<tr>
<td>Mechanical Engineering</td>
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<tr>
<td>Materials &amp; Metallurgical Engineering</td>
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<tr>
<td>Chemistry</td>
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<td>12</td>
<td>27</td>
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<tr>
<td>Mathematics / Statistics</td>
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<td>26</td>
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<td>Physics</td>
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<td>Humanities &amp; Social Sciences</td>
<td>23</td>
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<tr>
<td>Industrial &amp; Management Engineering</td>
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<td>Nuclear Engineering &amp; Technology</td>
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<td>03</td>
<td>06</td>
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<tr>
<td>Biological Science &amp; Bio Engg.</td>
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<tr>
<td>M.B.A.</td>
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**UNDERGRADUATE**

The following statement shows promotion and detention of B.Tech., M.Sc. (Integrated) and B.Tech.-M.Tech. (Dual Degree), students in the academic year 2006-2007 (upto May, 2007)

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Contents</th>
<th>1st Year</th>
<th>2nd Year</th>
<th>3rd Year</th>
<th>4th Year</th>
<th>5th Year</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Students strength at the beginning of the session</td>
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<td>502</td>
<td>479</td>
<td>395</td>
<td>136</td>
<td>2053</td>
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<tr>
<td>2</td>
<td>Students strength at the beginning of the 2nd semester</td>
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<td>598</td>
<td>477</td>
<td>395</td>
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<td>Students joined in 2nd semester on migration</td>
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<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td>4</td>
<td>Number of students withdrawn or on leave on medical ground in 1st and 2nd semesters</td>
<td>07</td>
<td>02</td>
<td>02</td>
<td>01</td>
<td>-</td>
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<tr>
<td>5</td>
<td>Number of students graduated</td>
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<td>Nil</td>
<td>242</td>
<td>227</td>
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<tr>
<td>6</td>
<td>Number of students dismissed due to poor performance in 1st and 2nd semester</td>
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<td>04</td>
<td>01</td>
<td>-</td>
<td>-</td>
<td>05</td>
</tr>
</tbody>
</table>

The following statement shows promotion and detention of M.Sc.(2-year) and M.Sc.(Dual Degree) students in the academic year 2006-2007(upto May, 2007)

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Contents</th>
<th>1st Year</th>
<th>2nd Year</th>
<th>Total</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Students strength at the beginning of the session</td>
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<tr>
<td>2</td>
<td>Students strength at the beginning of the 2nd</td>
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<td>83</td>
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<tr>
<td>Sem.</td>
<td>Number of students dismissed in 1st semester</td>
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<td>-</td>
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<td>------</td>
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<tr>
<td></td>
<td>Number of students dismissed in 2nd semester</td>
<td>-</td>
<td>-</td>
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</tr>
<tr>
<td>4</td>
<td>Number of students graduated in 1st semester</td>
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<td>-</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Number of students graduated in 2nd semester</td>
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<td>67</td>
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<tr>
<td>5</td>
<td>Number of students dismissed in due to continued absence from the programme</td>
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</table>

Following is the department-wise break-up of students who were awarded the degree at XXXIX Convocation held on 01-06-2007. Shri G Madhavan Nair, Chairman ISRO, Govt. of India is the Chief Guest at the Convocation:

<table>
<thead>
<tr>
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<tr>
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<td>14</td>
<td>312</td>
<td>86</td>
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</table>
Research and Development

The institute has maintained a healthy growth rate in its Research and Development activities in diverse fields of Science and Technology during the year 2006-07. The faculty members and research engineers/scientists of the institute are engaged in executing, at any time, about 138 sponsored projects and about 96 consultancy projects. The institute received a total research grant of approximately Rs. 65.68 crores rupees for sponsored projects and Rs. 5.62 crores rupees for consultancy projects, respectively.

A Memorandum of Understanding (MoU) has been signed between Hindustan Aeronautics Limited (HAL) and the Indian Institute of Technology, Kanpur on to conduct basic and advanced research and tackles multidisciplinary problems in aircraft systems technology and its application. This MOU is in recognition of the need for Scientific and Engineering research to enable a truly self-reliant and advanced aircraft systems development programme for the country in the coming years and IIT Kanpur’s a strong research base in areas of direct relevance to the future programmes of HAL. In particular, HAL would like to use the expertise available at IITK in aircraft systems and Line-Replacement Units (LRUs) related technologies. The broad areas initially identified for carrying out collaborative technology development work are:

- Environmental Control and Hydraulic Systems analysis by FEM and CFD
- Microprocessor based instruments on Active Matrix Liquid Crystal Display, Fuel Content Gauge and Air Data Sensors
- Optimization of weight and size of Aerospace equipment.
- Development of Communication equipment
- Tracking algorithms for Radar.
- Data Compression Algorithms
- Open system hardware development
- Optronics, Nanotechnology development

Details of some of the major projects sanctioned during the year 2006-07 are as follows:

National Projects

- “Brihaspati Phase-2: Development of open source content delivery tools with advanced features” funded by the Ministry of Communication and Information Technology (MCIT) aims to develop the Brihaspati Virtual
Classroom tools further with better and modified architecture. The expected outcome of the project involves; Web application source codes in different packages written in java; the rpms, zips for installation; jar based distribution; documentation of the architecture and user documentations made available to public via websites of the project; Working LMS installation using developed software; Technology being transferred to industry for commercially supported LMS Solutions.

- “Development of English to Indian Languages: Machine Translation (MT) System based on AnglaBharti Technology” The institute has joined hands with the Centre for Development of Advanced Computing (CDAC) Kolkata, CDAC Noida and CDAC Tiruvananthapuram as a fourth Institution where IIT Kanpur is chosen as the Consortium Leader. The project is funded by the Department of Information Technology (DIT). The deliverables of the project involves development of a English to Indian Languages Machine Translation System based on AnglaBharti-II Technology, where user will be able to give a document in English; user will be able to get the translated document in other Indian Language of the choice of the user; the MT System will be developed in the Tourism and Health domains with 80-85% accuracy; language pairs involved will be English-Urdu, English-Punjabi, English-Bengali, English-Malayam.

- “Ordered Peptide Assemblies” sponsored by the Department of Science and Technology (DST) is concerned with the understanding of the fundamental role of short peptide motifs from biologically relevant sequences and proposes that they act as focal points of the aggregation process. Towards this goal, novel peptide constructs will be synthesized and their solution-phase aging behavior will be studied with the help of TEM/SEM, AFM and optical microscopic techniques to follow the initial phases of peptide aggregation to develop models for full-length protein aggregates.

- “Structural and Biochemical Investigations to determine the roles of protein kinases B and G in M. Tuberculosis” funded by the Department of Biotechnology has the objective of Structural and Biochemical characterization of PknB and its interaction with substrates. The project provides the structural basis for PknB -Substrate Interactions; Structural and Biochemical characterization of PknG and its interaction with substrates. Moreover, the project looks forward towards biochemical investigations to identify and characterize the autophosphorylated residues in PknG.
• **“Identification, Analysis and Control of Flow Angularity in Thrust-Vectored Nozzles”** funded by the Aeronautics Research & Development Board (ARDB) has put forth that simple additions of propulsion to flight-control technologies, in linear simulations have been found to be inadequate. Therefore, people have proposed some integrated airframe-propulsion system concepts to develop more robust and agile flying platforms. Thus, the study involves a detailed analysis of the accelerated flow field through a curved nozzle to be carried out, which will help in identifying the location of steepest radial pressure gradient. A closed loop fluidic actuator has been used to reduce the pressure gradients such that the divergence between the geometric and effective thrust-vectoring angle can be reduced.

• **“Modeling Oxido-reductase Enzymes of Molybdenum and Tungsten from Hyperthermophilic to Mesophilic Origin”** Under the special drive of DST to compete globally in the field of “Bioinorganic Chemistry” project proposals were invited and were reviewed by National and International Experts. Under this Scheme, the said project has bee sanctioned to IIT Kanpur. This research will try to understand the development of metalloproteins from hyperthermophilic anaerobic primitive environment of the earth to the present day mesophilic aerobic environment. The project seeks that the hyperthermophilic anaerobic tungsten enzymes and mesophilic aerobic molybdenum enzymes will be synthesized in test tube to understand their involvement in controlling several biogeochemical cycles like, nitrogen, carbon or sulfur cycles. The chemistry, structural features, biochemistry of the synthesized systems will be compared with the isolated native enzymes and hybrid systems will be developed.

• **“Magnetic and superconducting thin film heterostructures for SPINTRONICS”** funded by the Department of Atomic Energy (DAE) under the Board of Research in Nuclear Sciences (BRNS) has sanctioned a project titled in collaboration with the research scientists from SNBCBS, IISc, IACS and Pune University. This collaborative research project envisages optimal utilization of thin film heterostructures of doped Mott insulators and multielemental intermetallics. The focus is on understanding the fundamentals of interface magnetism, carrier mediated exchange coupling, and Cooper pair and quasiparticle tunneling in superconductor-ferromagnet-superconductor [FM-SC-FM] and ferromagnet-insulator-ferromagnet [FM-I-FM] junctions. The issues such as the phase shift in the tunneling of the condensate in FM-SC junctions, long range proximity effect in SC-AF-SC sandwiches and spin polarized tunneling in FM-insulator-FM junctions will be addressed through extensive transport measurements over a wide range of temperature and
magnetic field. The immediate and tangible benefits of the project are fundamental understanding of the physics of these contemporary materials, development of expertise and human resource in the technology of heterostructures and creation of infrastructure for preparation and procession of new material systems for SPINTRONICS.

• "Identification, Analysis and Control of Flow Angularity in Thrust-vectored nozzles" is funded by Aeronautics Research and Development Board (AR & DB). One of the major problems associated with thrust-vectored nozzles is the development of high-pressure spot at the bending location. This leads to the establishment of radial pressure gradients causing the flow to bend away from its desired direction. Therefore, the effective flow angle and not the geometric vectoring are considered to be the most important control parameter in thrust vectored systems. In the given study, a detailed analysis of the accelerated flow field through a curved nozzle is being carried out, which has helped in identifying the location of steepest radial pressure gradient. A closed loop fluidic actuator has been used to reduce the pressure gradients such that the divergence between the geometric and effective thrust-vectoring angle can be reduced.

• "Microdevices for Process Applications" funded by DST explains that the use of microdevices such as micromixers, micro-heat-exchangers and microreactors is expected to have a number of advantages over conventional systems for heat and mass transfer, chemical reactions and sensing. These advantages include very fast mixing, high heat and mass transfer rates, high level of safety, ease of scale-up and fast dynamic response. In the proposed study, a microfabrication facility will be established and two specific microdevices will be developed. These include an integrated microfuel processor for producing hydrogen and a biosensor for early cancer detection. Moreover, fundamental studies on hydrodynamics, heat and mass transfer in micro-channels for design of the above two devices will be undertaken. Specifically, these studies will focus on convective flow boiling of miscible fluids in micro-channels, effect of aspect ratio and roughness on single phase heat transfer, passive strategies for enhancing heat and mass transfer, hydrodynamics and mass transfer around immobilized cells and the effect of catalyst coating on single phase hydrodynamics and heat transfer.

• "Study of Efficiency of Polymer Photo-Voltaic Cells & Photo-Detectors using Different Dopants" has been sponsored by DRDO to achieve the state of art efficiency of PVs. The polymer materials used in making photovoltaic cells are new class of materials. Their properties, interactions with other materials and environment are important in making efficient and stable
photovoltaic cells. Besides stability issues, there are three other parameters viz. open circuit voltage (VOC), short Circuit (Isc) current and Fill Factor (FF) which are to be increased. The experiments are being carried out to obtain the objective. Already results of good device characteristics and solar modules capable of driving small electronic gadgets like digital watch, calculator and LEDs have been fabricated.

- **“Identification and Chemical Characterization of Particulate Air Pollution Sources and their Apportionment in Ambient Air of Kanpur City”** Pollution control agencies responsible for developing particulate attainment strategies must be able to provide convincing evidence that (a) the relative importance of emission sources is understood and that (b) the control programs proposed are cost effective and can be adopted by the community with confidence. To effectively answer these questions, a project is sponsored to IIT Kanpur by Central Pollution Board, New Delhi. Objectively the project aims to achieve the following: identification and inventorization of emission sources (industry, traffic, power plants, local power generation, small scale industries etc.) in Kanpur city; to measure baseline air pollutants and air toxic levels at different parts of Kanpur, which includes “hot spots” on curbside as well ;to project emission inventories using mathematical models taking into account of vehicle population/ improvements in vehicle technology, fuel quality changes and other activities having impact on ambient air quality thereof; and Application of receptor modeling to PM$_{10}$ levels in ambient air to arrive at source apportionments.

- **“Feasibility Study of Superfinishing Process For Silicon Mirror”** funded by Bhabha Atomic Research Centre (BARC) will be carried out with a view to prepare a Road Map for Developing Superfinishing Technology for Large Single Crystal Silicon Mirrors with sub-nanometer surface finish. The Road Map will highlight:
  a) The ‘Grey Areas’ where basic research efforts are to be concentrated,
  b) The ‘Gap Areas’ where technological inputs in terms of establishing superfinishing technology in the country in terms of Special Purpose Machines, special tooling and comprehensive technology development scheme are clearly identified.

International Projects

- **“Passive and Active RFID and Location Technology Research”** sponsored by the Boeing Company, St. Louis, Missouri, USA aims at evaluating different RFID vendors for passive and active systems as well as for real time location...
systems, on the basis of the quality of their products and the technology employed, highlighting their strengths, weaknesses, advantages, disadvantages, and special features. Also, different types of RFID technologies and algorithms are to be assessed on the basis of their capabilities, accuracies, and reliability. Selected RFID hardware and software will be tested and researched in the laboratory environment to suggest means of the RFID technology and product improvement. The second phase (another three years) of the Boeing project will focus on the deployment of an accurate Real Time Location System (RTLS) in their large aerospace manufacturing plant in St. Louis, Missouri, USA.

- **“Environmental Health Assessment: Respiratory Disease in relation to Air Pollution in Kanpur, Uttar Pradesh”** The project is built upon results and achievements of the earlier project between IIT Kanpur and Norwegian Institute for Air Reserach (NILU) on “Indoor and Ambient Air Exposure of PAHs and Fine Particulate to Women and Children: Health Impacts in terms of Morbidity” completed in July 2005. It is a multi-institutional project sponsored by NORAD, Norway. Besides IIT Kanpur and NILU, Central Pollution Control Board, Agra, GSVM Medoical College, Kanpur and UP State Pollution Control Board (SPCB) are participating in the project. The main aim of the project is to build up a methodology for environmental health impact assessment. The specific aims is to accesss population-wide health effect of air pollution in the city of Kanpur, to lay further basis for environmental health and air quality monitoring at Kanpur and Agra and to disseminate the findings and sampling procedures for adoption at other sampling locations in India.

- **“Neurofibrillary Tangles IN Lafora Disease: Unraveling Molecular Players of Dementia”** is funded by Life Sciences Research Board (LSRB). With increasing understanding of the underlying pathology, new therapeutic targets are being identified at an increasing rate and the present proposal aims to characterize one of the regulators of tau phosphorylation. The ongoing investigations using a mouse model for a neurodegenerative disorder called Lafora disease (LD) reveal widespread presence of NFTs in the affected brain. LD, a fatal disorder, is caused by defects in the gene EPM2A encoding a protein phosphatase named laforin. It is therefore proposed to establish the molecular links between laforin and tau proteins using an inducible neuronal cell model. The finding of this project is expected to offer novel drug targets for intervention strategies.
Patents Granted to IIT Kanpur Faculty during the financial year 2006-2007

Tubular microwave sintering furnace (1147); Rare-Earth Oxide Dispersed Sintered Stainless Steels (1224); A Process for generating micro and sub-macro patterns on the surfaces or layers of polymers(1519); An Organic/polymer low information content displays (1525); New Duplex adsorption process for fraction of gas mixture (1567); Wide Band Loop Antenna (1594); A low complexity symbol timing estimator for MIMO Modem using two samples per symbol (1857); Conversion of Vegetable Oils to Biodiesel (2114); Conferring nematode resistance in plants (171); Improved Single Phase Phase-Locked-Loop (349); Process for generating miniaturized replicas of a 2D or 3D pattern or an object (522); A novel viscoelastic media used for a nanofinishing of materials through abrasive flow machining process and method of manufacture thereof (591); Two dimensional nano positioned (323); Butt Joint using reinforced adhesives (679); Functionally graded magnetic materials and a method for preparation of the same (680); A novel functionally graded polymer(s)/polymeric nanocomposite(s) [FGP(s)] having glass transition temperature variation and a process for preparation thereof (681); Carbon nanotube(s) Coated Cutting tool(s) and a method for preparation thereof (735); Functionally Graded Polymer Nanocomposites/Composites having cross linking density variation and their manufacture (736); Functionally graded wide-band polymeric composites for microwave absorbers and method of manufacturing same (737).

Few international patents have also been filed during during the last year 2006-07; Pathogen Resistant Transgenic Plants, Associated Nucleic Acid Molecules and Techniques involving the same (US Patent Application Serial No. 11/783, 916); Process for nitration of macromolecules (PCT) No. 00370

Major Multi-disciplinary Facilities Added During the Financial Year 2006-2007 is:

1. **Facilities under the FIST Scheme of DST:**

The Department of Science and Technology (DST) has a Fund for Improvement of Science & Technology (FIST) to build infrastructure facilities in Universities and Higher Educational Institutions. The grant under this scheme is provided for strengthening infrastructure of the identified department for teaching and research and is spent exclusively for the said purpose. During 2006-07, IIT Kanpur has received FIST grants to add special infrastructure facilities for research purpose. The Department of Biological Sciences and Bioengineering has been provided a total amount of Rs. 220.00 Lakh to strengthen the research facilities in areas of Cell Biology and Structural Biology. Similarly, the Department of Physics is sanctioned an amount of Rs. 422.00 Lakh as financial support to acquire “Helium Liquefiers, Helium Compressor, Cryogen Absorber, Helium Recovery Gas Bag, Acoustic Blanket fro
Helium Compressor etc.” The Department of Aerospace Engineering has been accorded an approval of Rs.395.00 Lakh as financial support to acquire “Time Resolved 3D PIV, Multi-channel CTA with Hot Film Probes, Pressure Callibrator, Pressure Transducers and Electrodynamic Tensile Testing Machine etc.” The Department of Mechanical Engineering is sanctioned an amount of Rs. 965.00 Lakh to strengthen research in the areas of “Experimental Stress Analysis, Smart Materials and Control, Fluid Mechanics, Heat Transfer, Energy Conservation, Manufacturing Science” in the Department.

2. Centre for Nanotechnology and Nanosciences:

In continuation of setting up the Centre of Nanoscience and Nanotechnology by the Department of Science and Technology (DST), a unique interdisciplinary proposal is focused upon where development of technologies based on the rapidly developing nanoscience can be developed. The project has been initiated in January 2007 with a current outlay of Rs. 11.50 crores for a period of 5- years.

The project focus is currently in the inter-related areas of: Development of Printable Organic Electronics with Organic-RFID tags as the first demonstrator prototype, and the Development of a versatile focused ion beam tool based on microwave plasma ion beam for applications in patterning and templating of soft-materials and substrates. As a part of this project world class facility for printing circuits with technologies such as ink-jet, nano-stamping and gravure printing methods will be installed. The ability to manipulate and make electrical measurements at a nanoscale is also an integral part. There have been under this project significant progress in the design and fabrication of ‘Organic Thin Film Transistors’ with different architectures. Both top gate and bottom gate TFTs have been fabricated and tested using existing facilities. Composite and multilayered dielectrics have been employed in the fabrication of Organic Thin Film Transistors. In order to overcome the limitation of using only Ga ions as focused ion beams (FIB), a multi-element FIB is being developed based on compact microwave plasma as ion source. This will be a unique facility globally and open up use of FIB to many more applications than that is possible at present.

3. Facilities under CARE Scheme of IITK:

IIT Kanpur has a Committee for Allocation of Research Equipment (CARE) Scheme providing financial assistance for the purpose of the specialized equipments for multidisciplinary research of significant value. The institute CARE support during the year 2006-07 has been Rs. 227.05 lakh for setting up Shielded Anechoic Chamber in the Department of Electrical Engineering, Precision Ion Beam Milling System in the Department of Materials and Metallurgical engineering, Density Gradient Separation cum Fractionation Facility in the Department of Biological Sciences and Bio Engineering, Encapsulation System for Organic Photovoltaic Devices/Panels in the
Department of Electrical Engineering, Cyclic Triaxial Testing System to Evaluate Shear Strength and Liquefaction Potential of Noncohesive Soil in the Department of Civil Engineering, Optical Microscope for Research on Microfluidics and Contact Mechanics on Soft Materials in the Department of Chemical Engineering, Tunable Laser in the Wavelength range of 1480-1640nm in the Laser Technology Programme, and Engine Exhaust Particle Sizer (EEPS) Spectrometer with Rotating Disk Diluter & Software in the Department of Mechanical Engineering.

During the year 2006-07, IIT Kanpur has strengthened its relations with many national and international institutes and organizations through research collaborations and signed memorandum of understanding. During the year 2006-07 the following institutes/universities/organizations have joined hands with IIT Kanpur for the purpose of research work in the diverse fields of science and technology. Some of such organizations are:

- University of Texas Southwestern Medical Center at Dallas, Dallas- For Beta Test site agreement for statistical coupling analysis algorithms.
- Pure Energy Vision Inc. (PEVI), Canada-To set up Direct Methanol Fuel Cell (DMFC) Center at IIT Kanpur.
- The Boeing Company (Boeing), St. Louis, Missouri- To use, handling, protection, and safeguarding of Proprietary Information which is disclosed by and between the parties for the purposes exploring advances in the radio frequency identification and how the technology applies to the way Boeing manages its supply chain.
- Interuniversitair Micro-Electronica Centrum, Belgium-For evaluating the confidential information to determine their respective interests in mutual beneficial research collaboration.
- Universiti Teknologi Mara, Shah Alam, Malaysia-The purpose of the International letter of Intent is to establish an academic partnership for carrying out various cooperative programs.
- Bose Corporation, USA-For interacting with the scientists at Bose and short-term summer project on Finite element analysis in structural mechanic.
- Indo-French Centre for the Promotion of Advanced Research (IFCPAR), Centre Franco-Indien Pour La Promotion De. La Recherche Avancee (CEFIPRA) -For carrying out project entitled “Electromagnetic methods: A way to forecast earthquakes.”
• Her Majesty The Queen in Right of Canada CANMET- Material Technology Laboratory-To better understand the particular challenges, particularly in corrosion, posed by operating oil and gas pipelines.

• L’Eole national Superieure, D’Arts ET Metilers, France (ENSAM)-To promote scientific and pedagogical cooperation, to exchange students and staff, to share experiences and to organize activities in the field of higher education and research.

Memorandum of Understanding has also been signed with many national institutions like:

Mahindra & Mahindra Ltd., Mumbai; Hindustan Aeronautics Ltd., Lucknow; Indo Gulf Fertilizers- A Unit of Aditya Birla Nuvo Ltd.; Ministry of Rural Development (Monitoring Division), New Delhi; Department of Biotechnology, Ministry of Science & Technology, New Delhi; Indian Air Force; Central Pollution Control Board, New Delhi; Central Mechanical Engineering Research Institute, (CMERI), Durgapur; Intel Technology India (P) Ltd, (Intel); The Directorate of Forensic Science, Ministry of Home Affairs, Govt. of India, New Delhi; Tata Consultancy Services (TCS), Mumbai etc.

List of major sponsored and consultancy projects sanctioned during the financial year 2006-2007 is provided below.

Sponsored Projects

A. National Projects

• “STRUCTURAL AND BIOCHEMICAL INVESTIGATION TO DETERMINE THE ROLES OF PROTEIN KINASES BANDIGIN TUBERCULOSIS” funded by DBT, Total cost Rs. 1,32,43,000.

• “DEVELOPMENT OF PROJECT OF RFID TECHNOLOGIES AND SETTING UP OF PREPARATORY FRAMEWORK OF EPC ACCREDITED AUTO LAB” funded by CDAC, Total cost Rs. 29,50,000.

• “DEVELOPMENT OF BETTER MODEL FOR SPEAKER NORMALISATION AND THEIR APPLICATION IN AUTOMATIC SPEECH RECOGNITION” funded by DST, Total cost Rs. 19,98,000.

• “EFFECTIVENESS OF FRP BARS IN SEISMIC STRENGTHENING OF RC FRAME WITH BRICK MASONRY IN FILL WALLS”, funded by DST, Total cost Rs. 23,73,018.
• “DEVELOPMENT OF ENGLISH TO INDIAN LANGUAGE MACHINE TRANSLATION SYSTEM BASED ON ANGLABHARTI TECHNOLOGY”, funded by DIT, Total cost Rs. 70,00,000.

• “THERMAL HYDRAULIC TRANSIENT ANALYSIS OF A PROPOSED REACTOR” funded by DAE, Total cost Rs. 14,87,700.

• “STAR –BURST, LINEAR, AND CROSS LINKED MACRO-MOLECULE METAL NANOPARTICLE HYBRID AS EFFICIENT RECYCLABLE CATALYSTS”, funded by DST, Total cost Rs. 50,00,000.

• “ION BEAM FACILITY FOR MICRO NANOSCALE SCIENCE AND ENGINEERING”, funded by DST, Total Rs. 15,60,00,000.

• “NATIONAL FACILITY & MICROARRAY GENETIC AND CELL IMAGING, funded by DBT, Total cost Rs. 23,79,000.

• “MULTI-SCALE ANALYSIS BASED MODELLING OF DAMAGE EVOLUTION IN UNI-DIRECTIONAL COMPOSITE LAMINATES”, funded by ARDB, Total cost Rs. 76,27,000.

• “IMPFACILIT OF ANTHROPOGENIC AEROSOLS ON CLOUD MICROPHYSICS”, funded by DST, Total cost Rs. 1,55,11,000.

• “DEVELOPMENT OF NOVEL CARBON NANOTUBE REINFORCED HYDROXYA PATITE (HAP), POLYETHER ETHER KETONE (PEEK) NANOCOMPOSITES FOR AEROSPACE APPLICATIONS”, funded by DBT, Total cost Rs. 36,87,000.

• “INVESTIGATION ON DEVELOPING BIO-ACTIVE POLYTHELENE-HAP AL2O3 BIOCOMPOSITES FOR BIO MEDICAL APPLICATION”, funded by DBT, Total cost Rs. 38,47,000.

• “BRIHASPATI PHASE –II: DEVELOPMENT OF OPEN SOURCES CONTENT DELIVERY TOOL WITH ADVANCED FEATURES”, funded by MCIT, Total cost Rs. 48,00,000.

• “SYNTHESIS AND CHARACTERISATION OF CARBON NANOTUBES ON THE SURFACE OF GLASS FIBER AND ITS COMPOSITE IN EPOXY MATRIX”, funded by DST, Total cost Rs. 24,45,329.

• “MODELLING OXIDE REDUCTASE ENZYMES OF MOLYBDENUM NAD TUNGSTEN FROM HYPERTHERMOPHILIC ORIGIN”, funded by DST, Total cost Rs. 1,30,91,000.
• “MICRODEVICES FOR PROCESS APPLICATION”, funded by DST, Total cost Rs. 4, 97, 96,000.

• “CONSOLIDATION AND SHEAR STRENGTH BEHAVIOUR OF COHESIVE SOIL WITH THE EMPHASIS ON ITS INTERMEDIATE MICROFABRIC”, funded by DST, Total cost Rs. 35, 28,000.

• “STUDY OF EFFICIENCY OF POLYMERS PHOTO-VOLTAIC CELLS PHOTO DETECTORS USING DIFFERENT DOPANTS”, funded by DRDO, Total cost Rs. 67, 00,000.

• “EXPERIMENTAL STUDY OF AERATED LIQUID INJECTION”, funded by ARDB, Total cost Rs. 67, 00,000.

• “IMAGE VELOCIMETRY DEVELOPMENT FOR BIOMEDICAL & MEMS APPLICATION”, Funded by DST, Total cost Rs. 99, 16,000.

• “FEASIBILITY STUDY OF SUPERFINISHING PROCESS FOR SILICON MIRROR”, funded by BARC, Total cost Rs. 55, 93,800.

• “STM/S STUDIES OF STRONGLY CORRELATED TRANSITION METAL OXIDES”, funded by DST, Total cost Rs. 37, 15, 800.

• “HIGH ALPHA AERO DYNAMIC TESTING”, funded by ARDB, Total cost Rs. 24, 66,500.

• “CRP SPINTRONICS MATERIAL MAGNETIC AND SUPERCONDUCTING THIN FILM HEREROSTRUCTURES FOR SPINTRONICS”, funded by DAE, Total cost Rs. 1, 18, 78,000.

• “ORGANIC CHEMISTRY”, funded by DST, Total cost Rs. 34, 80,000.

• “CENTRE FOR NANO-TECHNOLOGY (PRINTABLE ELECTRONICS, NANOPATERNING)”, funded by DST, Total cost Rs. 11, 80, 00,000.

• “INVESTIGATION OF MULTI-FUNCTIONAL FERROELECTRIC (BFeO3 X-PbTiO3) X- THIN FILM FOR SENSOR AND ACTUATOR APPLICATIONS”, funded by DRDO, Total cost Rs.45, 48, 000.

• “MATHEMATICAL MODELINE OF FLOOD INNUDATION AREA DUE TO TSUNAMI BY USING HIGH RESOLUTION ALTIMETRIC LIDAR DATA UNDER THE GIS ENVIRONMENT”, funded by DST, Total cost Rs. 31,59,000.

• “ORGANOMETRIC COMPOUNDS OF IR (III) AS PHOSPHORESCENT DOPANTS IN ORGANIC LIGHT EMITTING DIODES”, funded by DRDO, Total cost Rs. 37, 37,500.
• “DEVELOPMENT OF A DUAL GROWTH FACTOR DELIVERY SYSTEM FOR TISSUE ENGINEERING”, funded by BT, Total cost Rs. 36,75,000.

• “THE ROLE OF UBIQUITIN –PROTEASOME DYSFUNCTION IN LAFORA DISEASE (LD): UNDERSTANDING THE MOLECULAR FUNCTIONS OF THE LD GENE PRODUCT MALIN- A PUTATIVE UBIQUITIN LIGASE”, funded by BRNS, Total cost Rs. 19,63,250.

• “USE OF DIA TECHNIQUE STRAIN LOCALIZATION ANALYSIS OF CLAY SPECIMENS WITH CONTROLLED MICROFABRIC UNDER CYCLIC LOADING CONDUCTION”, Total cost Rs. 19,44,000.

• “FUNTIONAL CHARACTERIZATION OF PLANT PARASITIC NEMATODE GENES USING THE RNA-MEDIATED INTERFERENCE (RNAi) TECHNOLOGY”, funded by DBT, Total cost Rs. 31,08,000.

• “ANGLABHARTI CONSORTIA FOR MACHINE TRANSLATION FROM ENGLISH TO INDIAN LANGUAGE”, funded by DIT, Total cost Rs. 69,12,500.

• “IDENTIFICATION, ANALYSIS AND CONTROL OF FLOW ANGULARITY IN THRUST-VECTORED NOZZLES”, funded by ARDB, Total cost Rs. 98,19,500.

• “FINDING EFFICIENT ALGORITHMS FOR IDENTIFYING TESTINS AND GRAPH ISOMORPHISM”, funded by DST, Total cost Rs. 42,00,000.

• “ENANTION SELECTIVE C-c, C-o AND C-NB AND FORMATION”, funded by DST, Total cost Rs. 29,04,000.

B. International Projects

• “IMAGING PHASE SEPARATION IN CMR MATERIALS” funded by AOARD, Total cost Rs. 11,00,000.

• “NEURO-FIBRILLARY TANGLES IN LAFORA DISEASE: UNRAVELLING MOLECULAR PLAYER OF DEMETIA” funded by, Life Sciences Research Board (LSRB) Total cost Rs.24,24,001.

• “TERAHERTZ WAVES USING HIGH DENSITY PLASMA SOURCES, funded by AOARD, Total cost Rs. 11,25,000.

• “ENVIRONMENTAL HEALTH ASSESSMENT”, funded by Norwegian Institute of Air Research, Total cost Rs. 45,58,400.
• “TWINING EUROPEAN ANS SOUTH ASIAN RIVER BASINS TO ENHANCE CAPACITY AND IMPLEMENT ADAPTIVE INTEGRATED WATER RESOURCES MANAGEMENT APPROACHES”, funded by EC, Total cost Rs. 76,78,529

• “CACHE-WALKER: A COST EFFECTIVE NON-UNIFORM CACHE ARCHITECTURE FOR MANY CORE PROCESSORS”, funded by INTEL, Total cost Rs. 15,75,000.

Consultancy Projects

A. National Projects

• “GENERATION OF LONGITUDINAL AND LATERAL DIRECTIONAL AERO-DYNAMIC FORCE COEFFICIENTS OF FAE BOMB WITH RING TAIL CONFIGURATION BY WIND TUNNEL TESTING AT SUB-SONIC AND SUPER SONIC SPEED” funded by HEMRL, Total cost Rs. 9,94,860

• “CONSULTANCY SERVICE REG ARJUN SAHAYAK PROJECT” funded by MDC, Total cost Rs. 8,90,775

• “IMPACT EVALUATION STUDY OF PP/BKVY IN KBK DISTRICTS ORISSA” funded by GOO, Total cost Rs. 5,78,760

• “PRODUCTIONISATION OF SILICON PIN DIODES OF DIFFERENT CONFIGURATIONS FOR APPLICATIONS IN NUCLEAR RADIATION” funded by DRDO, Total cost Rs. 5,00,000

• “MEMBRANE SEPARATION EFFLUENT TREATMENT” funded by TISL, Total cost Rs. 10,00,000

• “DAY AHEAD AUCTION SOTWARE POWER EXCHANGE” funded by NCDEX, Total cost Rs. 5,00,000

• “CARPET WASHING MACHINE” funded by MOT, Total cost Rs. 12,89,000

• “TO DEVELOP MEMBRANE PROCESS BASED IN ORDER TO RECYCLE UREA BASED PROCESS CONDENSATE AFTER RECOVERING GAS NH3+CO2 AND UREA” funded by ADITYA, Total cost Rs. 20,32,608

• “FIELD TRIAL OF BIO-DIESEL FUELLED” funded by MAHINDRA, Total cost Rs. 15,50,000

• “TESTING OF CHOICE APPPLICATION SOFTWARE” funded by CHIPS, Total cost Rs. 18,40,000
• “LIBRARY AUTOMATION S/W DEVELOPMENT” funded by NSI, Total cost Rs. 3,65,000
• “ESTABLISHMENT OF MEASUREMENT SYSTEM FOR DETERMINATION OF VOLT-AMPERE (V-I) CHARACTERISTICS OF SHUNT REACTORS” funded by BHEL, Total cost Rs. 2,20,000
• “VOICE PROCESSING” funded by GM, Total cost Rs. 14,00,000
• “AUTOMATION GEOLOGY & MINING” funded by GEOLOGY, Total cost Rs. 3,00,000
• “ENHANCEMENT OF SCOSTA STANDARD 1.2b”, funded by SEMICO, Total cost Rs.18,00,000
• “SYNTHESIS OF FRAGMENTS”, funded by NEUROGEN, Total cost Rs. 3,51,000
• “INDIA INFRASTRUCTURE REPORT-2007, funded by MORD, Total cost Rs. 15,00,000
• “VIBRAHAN TESTING OF TUNNELS IN UDHAMPUR KATRA SECHRON”, funded by IR, Total cost Rs. 13,46,880
• “INDEGENOUS DEVELOPMENT OF BOF PROCESS AUTOMATION SYSTEM AT RSP”, funded by RDCIS, Total cost Rs. 46,42,768
• “VENTILATION AND AERODYNAMICS OF AIRPORT”, funded by DMRC, Total cost Rs. 3,95,000

B. International Projects

• “DEVELOPMENT OF FEA TOOLS AND COURSE FOR BOSE APPLICATIONS” funded by BOSECO, Total cost Rs. 9, 90,000.
• “SMART CARD TECHNOLOGIES” funded by NXPSEM, Total cost Rs. 6, 75,000.
• “ACTIVE FAULT MAPPING IN KACHCH” funded by OYO, Total cost Rs. 13, 44, 187.
• “PASSIVE AND ACTIVE RFID AND LOCATION TECHNOLOGY RESEARCH” funded by Boeing, Total cost Rs. 90, 00,000.
Alumni Association Activities

Alumni Association starts functioning from Outreach 69 and 80 building - the new Alumni and Placement Centre

The Alumni Placement Centre has been inaugurated on 26th December 2006.

The Alumni Association office is also presently functional from the Center. We want to put on record our deep appreciation of 1969 and 1980 batches for providing us this world class facility.

Many new initiatives which have been taken up in the financial year 2005-06:

New Activities:

a. **ICICI Online Payment Gateway**
   The ICICI Online Payment Gateway has been set up for the purpose of receiving online proceeds of interalia, reunion registration fees, sale of souvenir items and online remittance facilities. ICICI has provided the Alumni Association two MIDs (merchant ids) one for accepting payment in INR and other in USD.

b. **Wiki integration**
   Wiki is an interactive website created for both IITK students and alumni so that they can share information, create personal pages and discuss various issues.

c. **Web casting of the reunions**
   The events held in the new Alumni center were web cast live and could be accessed by all alumni desirous of watching the events

d. **Alumni Magazine**
   The first issue of the alumni magazine has almost been finalized and its publication is under process

e. **Music hobby classes**
   Music hobby classes have been started in the student activity centre from 2nd semester of 2006 for talented students of IITK in classical vocals.
Ongoing Activities:

Nostalgia
The ‘Nostalgia’ event jointly organized by AA and the Student’s Gymkhana, is held every year for bidding farewell to the students completing their graduation/post graduation. The Class-of-2006 had their penultimate meeting on 20 April 2006.

Reunions:

30 – Year Reunion – Zinc Jubilee Reunion
The first ever 30th year reunion was held by the class of 1977 from 24th - 25th December 2006 with 35 alumni attending the reunion along with their families. The reunion was inaugurated by the Director in the new outreach building and the occasion was web cast live. The reunion was a success, and other batches have been inspired to have their own 30th year reunion in the coming years.

35 – Year Reunion:
The 35-year Reunion of the Class – of – 1972 was held on the campus during 27th – 28th December 2006 with 91 alumni from around the globe, participating in the event.

25 – Year Reunion - Silver Jubilee Reunions:
The Silver Jubilee Reunion of the Class – of – 82 was held on the campus during 30th – 31st December 2006 with 88 alumni attending the event with their families.

Distinguished Alumni Awards:
Forty five (45) nominations were received for the Distinguished Alumnus Award 2005 – 2006. After due deliberations, the Committee as per constitution selected the following persons for the Distinguished Alumni Awards: (1) Mr. Ravinder Nath Akhoury (BT/EE/68) (2) Mr. Narendra Kumar Harihar Kale (MT/CSE/76) (3) Prof. Ashutosh Sharma (BT/CHE/82) (4) Dr. Rajiv Desai (BT/ME/82) (5) Mr. Rajeev Chawla (BT/EE/84).

Satyendra K. Dubey Memorial Award:
Satyendra K. Dubey Memorial Award was instituted commencing from the year 2005. Ten nominations were received for the year 2006 for this award and
Prof. Ganesh P. Bagaria has been selected for the award by the Board of Governors of the Institute.

**Distinguished Lectures:**

**23rd Kelkar Alumni Lecture**

The 23rd Kelkar Alumni Lecture ‘Right to Information - A Tool for Holding Government Accountable’ was delivered on 25 March 2006 by Mr. Arvind Kejriwal (BT/ME/89/IITKGP) Founder of ‘Parivartan’.

**Lectures on ‘Be an IITian in the Job Market’ series**

This lecture series aims at updating IITK students on current job scenarios and inform students of the various job opportunities available to them, the pros and cons of these options, and what they need to do at IITK to prepare themselves for the option of their choice. Speakers are encouraged to relate their personal experiences in the work place and provide tips on dealing with the “real” world.

The second lecture of this series was delivered by Sanjiv Rangrass (BT/MME/82) General Manager Operations ITC Ltd., on August 26, 2006 and the third lecture of the series was delivered by Manoj Tandon (BT/MME/83) Head, Corporate Strategy and Business Planning of Nucleus Software on November 18, 2006.

**Alumni Newsletter**

In the year 2006-07 there were five editions: May, July, September, November, January and March.

We are attempting to improve the content and design with every issue. From the September edition 2006, hard copies of the Newsletter are being printed and sent to those alumni whose email id is not available in the database. AA has received a good response from sponsors and will strive to further enhance the sponsorships.

**Alumni Database:**

Since 1 April 2006, AA has made significant progress in enhancing the coverage of Alumni Database.
Central Facilities

P. K. KELKAR LIBRARY

P. K. Kelkar Library is housed with all modern amenities, in a magnificent three-storied building covering an area of 5730 square meters. The Library has been rendering essential support to the academic, research and development programme of the Institute. The Library remains open, for 358 days of the year, from 8 a.m. to 12 midnight on all working days; 9 a.m. to 12 midnight on Saturdays; 9 a.m. to 5.30 p.m. on Sundays and Gazetted holidays, and for 24 hours during the three examinations each semester.

VISION 2010 FOR P. K. KELKAR LIBRARY

A paradigm shift in form and content of Knowledge and Information Management System has necessitated need for a vision document for P. K. Kelkar Library. The document highlighted on the following points:

i. Addressing to ‘Digital Divide’
ii. Use of standard library software package
iii. Development of Digital Library

A two-pronged strategic solution to de-stress the existing print collection was considered necessary in that while discipline wise available digital content are to be added; digitization of existing print collection wherever possible should be done. Initiative for Development of Institutional Repositories (IR) in terms of Electronic Theses and Dissertations (ETD) and Faculty/Academic staff publications has already been taken up. On the other hand digital contents in terms of e-books and online journals are also being added to the collection.

Creation of an Archival Library Building by shifting to it lesser/least used existing reading material has been suggested. This will help to de-load the existing library building which can be retrofitted to make it earthquake resistant. The existing library building will then be available with requisite innovations as a Modern Digital Library. There is a need for separate budgetary provision to achieve these objectives. The vision document was presented before the Senate Library Committee on Aug. 23, 2006 and to the
Institute Advisory Committee in its meeting held on Oct. 26, 2006 as an item no. 4 of its agenda.

**NEW ADDITIONS**

A total of 7243 volumes including 2983 books and 4260 bound journals were added to the collection during 2006-2007. The budget of Rs. 100 lacs was fully utilized for procurement of books.

**SUBSCRIPTION TO PERIODICALS AND BINDING**

The periodicals budget for 2006-2007 was Rs. 5.75 crores with an additional special grant of Rs.4 lacs. A grant of Rs. 20 lacs was made available by NBHM. The Library subscribed to 1283 current periodicals for the year 2007. Of these 942 are print versions, whereas 328 are print plus online and 13 are online only. The Library added 4260 bound volumes to its periodicals holdings. Besides, 2470 books and 638 old periodicals were also bound.

Springer’s Online Journals Archive (OJA) consisting of 256 titles was procured by pooling funds from IITs/IISc through INDEST.

**E-RESOURCES THROUGH INDEST-AICTE**

As a core member to the INDEST, IITK academic community is entitled to access 20 full-text e-resources and to 6 bibliographic databases. The following new services were started during the year 2006-07 through INDEST:

1. American Mathematical Society:
   i. Online access to three journals
   ii. AMS Books Online

1. American Institute of Physics/American Physical Society:
   - Online access to their twenty four titles with complete back files.

**LIBRARY SERVICES**

**WEEKLY DISPLAYS**

The books added to the Library collection are displayed on the first working day of each week and a weekly ‘List of Additions’ is available on the system. The current issues of the journals are also displayed on alternate days thrice a week.
CIRCULATION

During the year 2006-2007, 45827 publications were circulated for home study. A large number of books and journals from reference, textbook, and general collection areas were also consulted by users within the Library. Circulation facility is also extended to the superannuating faculty and to the institute alumni against a specified deposit.

DOCUMENT DELIVERY SERVICES & CONSULTATION FACILITY TO EXTERNAL USERS

Inter-Library Loan (ILL) services are extended free to sister IITs, IISc, TIFR, BARC, host of INDEST members and other technical institutions & universities. During 2006-2007, ILL (OUT) requests for 1088 articles/chapters were received and processed from the host of Institutions, whereas ILL (IN) requests for 145 articles/chapters were made to other libraries.

Consultation facility of the library was extended to 798 external users including 214 NICEE programme participants.

LIBRARY AUTOMATION

iitKLAS: the software manages the day-to-day functions of the library. It is developed in D2K with Oracle backend. The AIC module (Academic Information Center) is web based software developed in Java/Jsp for online access to library catalog. The order processing and journal entry programs were implemented. The e-mail alert for new arrivals of books has been introduced. The software for entry and access to the holdings of bound volumes were also implemented. Digital library initiatives help provide accessibility to the online journals from various publishers/aggregators, including INDEST-AICTE Consortium.

DIGITAL LIBRARY INITIATIVES

The following digital library initiatives were taken during the period:

1. CD Submission of Theses
Submission of theses by PG students direct to the library in CD form started from May 03, 2006.

2. Access to Electronic Theses and Dissertations (ETD)

Our ETD collection consisting of 9309 MTech/MDes and PhD theses as a first subset to **Institutional Repository (IR)** is accessible on intranet through [http://172.28.64.70:8080/dspace/](http://172.28.64.70:8080/dspace/)

3. Setting Up Digitization Facility

Provision for digitization facility with a high speed overhead book scanner (Minolta PS7000) and a server with capacity of one TB to host the content has been made available in the library.

4. Launching of 'Faculty/Academic Staff Publications'

'Faculty/Academic Staff Publications' consisting of papers published in conference/journals, lecture notes, delivered lectures/speeches, technical/project reports and the like has been launched as a second subset to the IRs. The work is in progress.

5. Weekly New Arrivals Alert

Effective Nov. 06, 2006, the library has started sending weekly e-mail alerts to the academic staff and students for the books added to the library during the preceding week.

6. Automated Circulation Facility in Reserve Collection.

Automated ‘Issue/Return’ facility in Reserve Collection, predominantly used by undergraduates, is available effective Oct. 14, 2006.

7. CD-ROM Database

Creation of CD-ROMs database for the following categories using WINISIS is in progress:

i. Accompanying material to books/journals
ii. Books only on CD-ROM
iii. Journal only on CD-ROM
iv. Conference proceedings
8. New Library Software Package

Procurement of LSPremia, a web centric software package for libraries from LibSys, and a dedicated server are under process to meet the requirements of in-house library functionalities and services, more so in the context of digital library environment.

Research Papers Published in Journals.


Research Papers Published in Conference Proceedings


4. Development of ETD at IITK Library using DSpace: Practical Exposures and Experiences, proceedings International Conference on Semantic Web


**Conference Attended Outside IIT Kanpur**


Awards and Honours

1. ‘SciFinder Best User of 2006 Award’ with a plaque in recognition of highest usage of the Chemical Abstracts Service database was presented to Mr. R. Mishra on behalf of IITK at the valedictory session of the 4th Annual Meet and Workshop of INDEST-AICTE Consortium at IIT Delhi on Dec. 20, 2006.


COMPUTER CENTER

Computer Center at IIT Kanpur is a central facility that caters to the computing needs of the faculty members and the students for their research and teaching. It also manages Internet and campus LAN infrastructure. It provides several popular applications like email and web access. It currently supports more than 5000 users.

For Central File service, Computer Centre has acquired a file server consisting of HP EFS Gateway with 6 nodes, HP Enterprise Virtual Array 8000 with 33.6 TB Disk space, HP MSL tape library with 4 LTO3 drive with 60 slots, backup server HP DL380 and Backup software HP storage works.

For high performance computing, Computer Center has acquired another SMP server HP Integrity rx8640 with 16 processor (32 core) Itanium 1.6 GHz, 18MB Cache per processor, 128 GB RAM. Computer Centre also has a 48 node cluster from HP and another 96 node cluster from SUN Microsystems. Each node is of HP cluster is a dual Opteron 2.6 GHz CPU with 8GB RAM. Each node of SUN cluster is a dual Opteron 2.4 GHz CPU with 4GB RAM. It runs Linux on all nodes and there is a master node, which runs SUN Grid Engine software to manage access to the cluster.

Computer Center has about 200 PCs running Linux or Window 2000 Operating System. All the PCs in the Center are connected through a 1000 Mbps switched network. About 150 PCs are based on Intel Pentium 4 with Hyper threading 3.4GHz processor with 1GB RAM. Rest PCs are AMD Athlon 5000+ dual core CPU with 2 GB RAM.
Computer Center supports an institute-wide 8000 points, 1000 Mbps fiber optic network that connects all Academic departments, Central library, Student Hostels, R&D hostel, Visitors’ Hostel, Lecture halls and all Administrative Sections. This is one of the largest campus networks in an academic institute. Connectivity to faculty residences is provided through ADSL. For other residential users, both inside and outside the campus, dialup service is provided. For Internet access, we have a leased line of 45 Mbps capacity from VSNL and 20 Mbps capacity from Reliance. IIT Kanpur is one of the best connected campuses in India. We also provide wireless access in several important buildings on campus.

Computer Center also has a specialized Virtual Reality Lab, for researchers in visualization and other similar needs. This includes an excellent 3-D projection facility, with a backend graphics engine, and two SGI advanced workstations for development work.

Computer Center provides email and web access facilities to all its users. Faculty members have access to all CC facilities for the life time.

Computer Center operates 24 hours a day, 365 days an year. It has a power back up through a 270 KVA online UPS and a 320 KVA generator set. Air conditioning is provided by the central air conditioning plant and split air conditioners.

**HARDWARE IN THE COMPUTER CENTER**

Computers in the Center have broadly been divided into various categories based on the activity supported by them. The broad categories and servers with configuration in each of the categories are listed below:

**Central File Server**

| 1. | HP Enterprise File server | 6 node HP EFS cluster gateway. Each node HP DL380 G5 with dual core xeon 2.6 Ghz, 8 GB RAM. HP Enterprise Virtual array 8000 with 33.6 TB Disk space, HP MSL tape library with 4 LTO3 drive and 60 slots, backup server: HP DL380 G5 and Backup software: HP storage works. |
### Mail File Server

<table>
<thead>
<tr>
<th>No.</th>
<th>Server Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>SUN V440</td>
<td>4* 1.28 GHz UltraSparc IIIi processors, 8 GB RAM, 6TB SAN storage with tape backup facility.</td>
</tr>
</tbody>
</table>

### Compute Servers

<table>
<thead>
<tr>
<th>No.</th>
<th>Server Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>HP SMP Sever</td>
<td>HP Integrity rx8640 with 16 processor (32 core) Itanium 1.6 GHz, 18MB Cache per processor, 128 GB RAM, 4 X 300 GB SCSI Disk.</td>
</tr>
</tbody>
</table>
| 2.  | HP Cluster       | Master nodes (1): HP DL585, AMD Opteron Quad Processor 2.6 GHz, 16 GB RAM, 2X145 GB Disk, 2X300 GB Disk, DVD Rom Drive  
Compute nodes (48): HP DL145, AMD Opteron Dual Processor 2.6 GHz, 8 GB RAM, 2X145 GB Disk, DVD Rom Drive |
| 3.  | SUN Cluster      | Master nodes (2): SUN V40z, AMD Opteron Dual Processor 2.4 GHz, 8 GB RAM, 3X146 GB Disk  
Compute nodes (96): SUN V20z, AMD Opteron Dual Processor 2.4 GHz, 4 GB RAM, 36 GB Disk. |
| 4.  | HP 9000/ L-3000  | 4 processors, 2GB RAM, 108GB disk                                           |
| 5.  | IBM RS 6000      | 4 Processors, 2GB RAM, 108GB disk                                           |
| 6.  | Compaq ES40      | 4 Processor, 2GB RAM, 108 GB disk                                           |

### Utility Servers

<table>
<thead>
<tr>
<th>No.</th>
<th>Server Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Internal web server (web)</td>
<td>Dual-Xeon, 2.0 GHz, 1GB RAM</td>
</tr>
<tr>
<td></td>
<td>Server Name</td>
<td>Type</td>
</tr>
<tr>
<td>---</td>
<td>-------------------------------------</td>
<td>---------------------------</td>
</tr>
<tr>
<td>2</td>
<td>External web server (www)</td>
<td>Dual-Xeon, 3.06GHz, 4GB RAM</td>
</tr>
<tr>
<td>3</td>
<td>Personal webpages - edit (webhome)</td>
<td>Dual-Xeon, 2.8GHz, 4GB RAM</td>
</tr>
<tr>
<td>4</td>
<td>Remote access server (access)</td>
<td>Dual-Xeon, 2.0GHz, 1GB RAM</td>
</tr>
<tr>
<td>5</td>
<td>Students Gymkhana server (navya)</td>
<td>Dual-Xeon, 2.0GHz, 1GB RAM</td>
</tr>
<tr>
<td>6</td>
<td>Web proxy (proxy)</td>
<td>Dual-Xeon, 3.2GHz, 4GB RAM</td>
</tr>
<tr>
<td>7</td>
<td>Web proxy (vsnlproxy)</td>
<td>Dual-Xeon, 3.2GHz, 4GB RAM</td>
</tr>
<tr>
<td>8</td>
<td>Mailbox server (mailhost)</td>
<td>Dual-Xeon, 3.2GHz, 4GB RAM</td>
</tr>
<tr>
<td>9</td>
<td>Lists server (lists)</td>
<td>P4, 3.6GHz, 2GB RAM</td>
</tr>
<tr>
<td>10</td>
<td>Web-based mail service (webmail)</td>
<td>Dual-Xeon, 3.06GHz, 4GB RAM</td>
</tr>
<tr>
<td>11</td>
<td>Windows Server 1 (CCNT1)</td>
<td>Dual-Xeon, 2.8GHz, 4GB RAM</td>
</tr>
<tr>
<td>12</td>
<td>Windows Server 2 (CCNT4)</td>
<td>Dual-Xeon, 2.8GHz, 4GB RAM</td>
</tr>
<tr>
<td>13</td>
<td>FTP server (ftp)</td>
<td>Dual-Xeon, 3.06GHz, 4GB</td>
</tr>
<tr>
<td>14</td>
<td>Internal DNS, YP server (nis)</td>
<td>Dual-Xeon, 3.06GHz, 4GB</td>
</tr>
<tr>
<td>15</td>
<td>Outgoing mail server (mail2)</td>
<td>Dual-Opteron 2.4 GHz, 8 GB RAM</td>
</tr>
<tr>
<td>16</td>
<td>Outgoing mail server (mail3)</td>
<td>Dual-Xeon, 3.2GHz, 4GB RAM</td>
</tr>
<tr>
<td>17</td>
<td>MS Exchange Mail Server1</td>
<td>Dual-Xeon, 2.0 GHz, 1GB RAM</td>
</tr>
<tr>
<td>18</td>
<td>MS Exchange Mail Server2</td>
<td>Dual-Opteron 2.4 GHz, 8 GB RAM</td>
</tr>
<tr>
<td>19</td>
<td>Application Server (aatish)</td>
<td>Dual-Opteron 2.4 GHz, 8 GB RAM</td>
</tr>
<tr>
<td>20</td>
<td>Application Server (falaq)</td>
<td>Dual-Opteron 2.4 GHz, 8 GB RAM</td>
</tr>
</tbody>
</table>

**Servers for Office/Library/Digital Library Automation**

1. **HP L-1000**
   - PA-RISC 8500@360 MHz, 512 MB RAM, 27GB HDD.

2. **SUN E-450 (OA, Digital Lib.)**
   - Four sparc @ 400 Mhz, 2GB RAM, 36 GB HDD one 1000 storage with 12 X 18 GB.

3. **Zenith One up (NT server)**
   - 2 Pentium-Pro processors, 1 GB RAM, 12 GB HDD.

99
4. PCs (150) in admin sections Pentiums with varying configurations.
5. Sun E250 (data vault) 2 Spare II Processor, 1 GB RAM, 216 GB HDD in RAID.
7. Compaq thin clients 125 thin clients for Office Automation.

**OTHER EQUIPMENT**

Computer Center has two spam filtering hardware from Barracuda Networks.

Computer Center also supports campus networking, and has one main switch, firewall, router, 50 distribution switches, and over 400 access switches.

**SOFTWARE IN THE CENTER**

Database packages- Oracle, Ingress
CAD/CAM and solid modeling package- I-Deas, Autocad
FEM Packages- MSC Nastran, MSC Mark
CFD Packages- Fluent
Tool to solve symbolic mathematical equations- Mathematica, MathCad
Simulation- Arena, Solversuite, Gams, Cplex
Chemical Process modeling – Aspen plus
Statistical Analysis Packages- Statistica, SPSS, SAS
Numerical Libraries – NAG
Graphic Presentation – Tecplot 360, Origin
Deform-3D
Atila, Maple, Adobe Digital video studio, Macromedia Director, Macromedia dream viewer, 3D studio Max 5.1
Catia, Toleran, Chemcad
Autocad 2002, Mechanical desktop, Land Desktop
GE04, Magic RP
Most flavors of Unix operating systems-AIX, Solaris, HP-UX, True64 Unix, Linux
Windows 2000 and Windows NT environments,
Office Suites- Applixware, Staroffice, Office 2000, Mathype
Compilers-NAG Compiler, Fujitsu Fortran Compiler, Visual Studios (C, C++, Pascal, Ada, Fortran-77, Fortran-90, Java, etc.)
Most of the popular Microsoft Products-Front Page, Back Office, Project, etc.
Abaqus 6.4
Hypermesh 5 user license.
All the softwares which come with RedHat/Mandrake Linux distributions
We have site licenses for Solaris, Sun Forte Compiler suite (C, C++, HPC),
NAG libraries, and NAG compilers.
Acrobat 6.0 Win 50 users license.

CENTER FOR DEVELOPMENT OF TECHNICAL EDUCATION

The Centre for Development of Technical Education continued its multifaceted
activities. Under Quality Improvement Programme (QIP) no one candidate in M.Tech.
and 06 in Ph.D. are admitted to various departments. The Curriculum Development
Cell (CDC) approved 11 text book writing proposals in addition to the 25 projects
which had been sanctioned earlier. The work for both proposals is under progress.
During the last financial year 07 book writing projects have been completed.

Through the Continuing Education Programme numerous short-term courses,
conferences and workshops were organized. A List of all short-term courses and
workshops/conferences/seminars is enclosed herewith.

List of Conducted Short Term Courses Under QIP

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Coordinator(s)</th>
<th>Dept.</th>
<th>Title of the Course</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Dr. P.K. Kalra</td>
<td>EE</td>
<td>Matlab Simulation</td>
<td>May 16-31, 2006</td>
</tr>
<tr>
<td>2.</td>
<td>Dr. A.K. Agarwal</td>
<td>ME/ MME</td>
<td>Advances in Materials &amp; Fuel Technologies for Automotive Applications</td>
<td>June 08-12, 2006</td>
</tr>
<tr>
<td>4.</td>
<td>Dr. B. Mazhari</td>
<td>EE</td>
<td>Organic Electronics 2006</td>
<td>July 17-21, 2006</td>
</tr>
<tr>
<td></td>
<td>Dr. S S K Iyer</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sl. No.</td>
<td>Coordinator(s)</td>
<td>Dept.</td>
<td>Title of the Short Course Title</td>
<td>Duration</td>
</tr>
<tr>
<td>-------</td>
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<td>---------------------------------</td>
<td>-------------------</td>
</tr>
<tr>
<td>1.</td>
<td>Dr. Rajiv Shekhar</td>
<td>SIDBI</td>
<td>Linux System and Network Administration</td>
<td>Feb. 15 – June 01, 2006</td>
</tr>
<tr>
<td>2.</td>
<td>Dr. Rajiv Shekhar</td>
<td>SIDBI</td>
<td>Oracle Course for IT Professional</td>
<td>March 10 – May 15, 2006</td>
</tr>
<tr>
<td>3.</td>
<td>Dr. Sudhir K. Jain</td>
<td>CE</td>
<td>Seismic Design of Buried Pipelines</td>
<td>April 03-07, 2006</td>
</tr>
<tr>
<td>5.</td>
<td>Dr. Manindra Agrawal</td>
<td>CSE</td>
<td>Data Structure and Algorithms</td>
<td>May 08-June 10, 2006</td>
</tr>
</tbody>
</table>

**Self-financing Courses**
<table>
<thead>
<tr>
<th></th>
<th>Speaker(s)</th>
<th>Organizational Affiliation</th>
<th>Title of Course</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.</td>
<td>Dr. Onkar Dikshit &amp; Dr. A Chatterjee</td>
<td>CE</td>
<td>Summer School on Use of Modern Technologies in Archaeology</td>
<td>June 12 – July 07, 2006</td>
</tr>
<tr>
<td>7.</td>
<td>Dr. Rajive Shekhar</td>
<td>SIDBI &amp; MME</td>
<td>Industrial Applications of MATLAB</td>
<td>June 24 – Aug. 06, 2006</td>
</tr>
<tr>
<td>9.</td>
<td>Dr. B V Phani</td>
<td>SIDBI</td>
<td>Introduction to Computer Networks</td>
<td>Sept. 4 – Nov. 20, 2006</td>
</tr>
<tr>
<td>10.</td>
<td>Dr. B V Phani</td>
<td>SIDBI</td>
<td>Advance Analytical Chemistry</td>
<td>Sept. 15 – Nov. 15, 2006</td>
</tr>
<tr>
<td>11.</td>
<td>Dr. S K Jain</td>
<td>CE</td>
<td>Engineering Response to Hazards of Terrorism</td>
<td>Sept. 25-26, 2006</td>
</tr>
<tr>
<td>12.</td>
<td>Dr. CVR Murty</td>
<td>CE</td>
<td>Nonlinear Seismic Analysis of Structures</td>
<td>Oct. 14-18, 2006</td>
</tr>
<tr>
<td>13.</td>
<td>Dr. Rajiv Shekhar</td>
<td>MME</td>
<td>Modelling Design of Primary Aluminium Production Processes</td>
<td>Nov. 20-25, 2006</td>
</tr>
<tr>
<td>17.</td>
<td>Dr. B V Phani</td>
<td>SIDBI</td>
<td>Supply Chain Management</td>
<td>Jan. 08- March 08, 2007</td>
</tr>
<tr>
<td>20.</td>
<td>Dr. Rajat Moona</td>
<td>CSE</td>
<td>Smart Card Technologies</td>
<td>March 06-10, 2007</td>
</tr>
<tr>
<td>Sl. No.</td>
<td>Coordinator(s)</td>
<td>Dept.</td>
<td>Title of the Conference/Workshop/Symposium</td>
<td>Duration</td>
</tr>
<tr>
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</tr>
<tr>
<td>1.</td>
<td>Dr. CVR Murty</td>
<td>CE</td>
<td>National Workshop on Natural Disaster Management Policy and Guidelines – Earthquakes</td>
<td>July 17, 2006</td>
</tr>
<tr>
<td>3.</td>
<td>Dr. P Gupta</td>
<td>CC</td>
<td>Workshop on High Power Computing</td>
<td>Sept. 05-06, 2006</td>
</tr>
<tr>
<td>4.</td>
<td>Dr. R P Singh</td>
<td>CE</td>
<td>Integrated Watershed Management</td>
<td>Sept. 4-22, 2006</td>
</tr>
<tr>
<td>5.</td>
<td>Dr. Rajat Moona</td>
<td>CSE</td>
<td>Workshop on Smart Card Os and Applications with SCOSTA Case Study</td>
<td>Oct. 03-06, 2006</td>
</tr>
<tr>
<td>7.</td>
<td>Dr. Rajive Sinha</td>
<td>CE</td>
<td>Workshop on Our Planet Earth: Under Pressure</td>
<td>Nov. 04, 2006</td>
</tr>
<tr>
<td>8.</td>
<td>Dr. S. Ganguly</td>
<td>CSE</td>
<td>Workshop for Algorithms on Data Streams</td>
<td>Nov. 05-09, 2006</td>
</tr>
<tr>
<td>22.</td>
<td>Dr. Phalguni Gupta</td>
<td>CSE</td>
<td>ACM International Collegiate Programming Contest</td>
<td>Dec. 09-10, 2006</td>
</tr>
</tbody>
</table>
11. Dr. Pradip Sinha | BSBE | European Molecular Biology Workshop (EMBO) | Dec. 16-20, 2006

12. Dr. Sumit Gnguly | CSE | Workshop for Algorithms on Data Streams | Dec. 18-20, 2006


17. Dr. Rahul Varman | IME | One day Case Study Workshop | Feb. 2006


19. Dr. B. Bhattacharya | ME | Workshop on Smart Materials for Design of Intelligent Systems and Industrial Application | March 23-24, 2007

**CENTER FOR CREATIVE WRITING AND PUBLICATION**

1. Dramatics Workshop (Aug. 8-16, 2006) which culminated in a few public productions by IITK students under the supervision of Mr. Ashok Tewari was sponsored by CCWP.

2. Shri Narendra Kumar gave a reading of his Hindi short Stores (Sept 6, 2006).

3. Dr. Jake Keen delivered a lecture on “Ancient Technology: Has it any Relevance Today?” on November 11, 2006.

4. Shri Narendra Kohli, the eminent Hindi novelist, delivered the following lectures “Shri Krishna in Mahabharat” and “Swami Vivekananda” on 8-9 February 2007.
5. Dr. Emily Hipchen of University of Georgia delivered a talk on “Creative Nonfiction, the Fourth Genre” on 17 March 2007.
6. Literary festival ALFAAZ (23-25 March 2007) was co-sponsored by CCWP.

**STAFF DEVELOPMENT COORDINATION CENTER**

The Staff Development Coordination Centre oversees the smooth progression of all the staff members in their career advancement and develops skills of an individual to satisfy current and future manpower needs of the Institute.

The non-teaching staff is an important component in the Institute and they must be taken along the journey of excellence. This Center committed to design to meet the challenges in terms of high qualities of training of human resources in the Institute. The staff members were whole-heartedly participated in the learning activities to acquire new knowledge, skills, and attitude and change habits. The Center has organized industrial visit at GAIL, Dibiyapur NTPC Unchahar and HAL Kanpur in order to learn/practice new technology and latest modern techniques of management as well as work culture prevailing in esteem organizations.

The following training programmes were organized during the financial year 2006-2007

<table>
<thead>
<tr>
<th>Sr. No</th>
<th>Title of the Training</th>
<th>Duration</th>
<th>No. of Participants</th>
<th>Participants Profile</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Human Relation at work</td>
<td>One-weeks April 20-24, 2006</td>
<td>22</td>
<td>Group D</td>
</tr>
<tr>
<td>2</td>
<td>Induction Programme</td>
<td>Three-days May 14-16, 2006</td>
<td>16</td>
<td>Group B&amp;C</td>
</tr>
<tr>
<td>3</td>
<td>5-S Work place management</td>
<td>Two-days July 21-22, 2006</td>
<td>56</td>
<td>Group C</td>
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<tr>
<td>4</td>
<td>5-S Work place management</td>
<td>Two-Days August02-3, 2006</td>
<td>63</td>
<td>Group B&amp;C</td>
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<tr>
<td></td>
<td>Course</td>
<td>Duration</td>
<td>Total</td>
<td>Group</td>
</tr>
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</tr>
<tr>
<td>5</td>
<td>5-S Workplace Management</td>
<td>Two-days Sep. 04-05, 2006</td>
<td>24</td>
<td>Group C (ministerial)</td>
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<tr>
<td>6</td>
<td>Safety Management</td>
<td>Two-days Oct 07-19, 2006</td>
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<tr>
<td></td>
<td></td>
<td>Indl Visit at GAIL Pata</td>
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</tr>
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<td>7</td>
<td>Communication at work</td>
<td>Two-days Nov. 21-22, 2006</td>
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<td>Group B &amp; C</td>
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<tr>
<td></td>
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<td>Indl visit at NTPC</td>
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<td></td>
</tr>
<tr>
<td>8</td>
<td>Computer Proficiency</td>
<td>One-Week Dec 03-0, 2006</td>
<td>25</td>
<td>Group C</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ministerial</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Induction Programme</td>
<td>One-week Feb 9-13, 2007</td>
<td>17</td>
<td>Group A, B &amp; C</td>
</tr>
<tr>
<td>10</td>
<td>Office Management</td>
<td>Three-day March 5-7 2007</td>
<td>36</td>
<td>Group B &amp; C</td>
</tr>
</tbody>
</table>

**SC/ST and OBC CELL**

The cell consists of **Prof. Arvind K Sinha** (Deptt. of Humanities & Social Sciences), Liaison Officer **w.e.f. October 20, 2006** and **Shri R R Dohare**, Superintendent & In-charge, Recruitment Section, in addition to their normal duties. Prof. Arvind K Sinha is available in **Room No. 221** (Directorate), Faculty Building at the Institute on **Phone No. 2597950** and Shri R R Dohare is available in **Room No. 224**, 2nd Floor, Faculty Building at the Institute on **Phone No. 2597391**.

Earlier, **Prof. N S Gajbhiye** (Deptt. Of Chemistry), was the Liaison Officer for SC/ST & OBC Cell **w.e.f. September 20, 2001 to October 19, 2006**. The services rendered by Prof. N S Gajbhiye as the Liaison Officer were appreciated and acknowledged by the Institute.
Implementation of reservation orders:
The effective date of implementation of reservation for SCs and STs in the direct recruitment is 5th September 1974 in this Institute and the implementation of reservation for OBCs is w.e.f. the year 1995.

Maintenance of rosters/ Percentage of reservation:
The Board of Governors had approved, in its meeting held on July 27, 1995, maintenance of 120 points vacancy-based roster [for Group A other than exempted posts (Points reserved in favour of OBCs-31, SCs-20, STs-9)] & B posts; and 100 points roster for Group C & D posts (Points reserved in favour of OBCs-27, SCs-21, STs-1) for direct recruitment at the Institute.

On the basis of Judgement passed by the Constitution bench of Supreme Court, the Government of India, Deptt. Of Per. & Trg., issued O.M. 36012/2/96-Estt.(Res.) dated July 02, 1997 vide which the above vacancy-based rosters have been revised into post-based rosters for the different category of employees in direct recruitment. The Board after due consideration accorded its approval, in its 1997/5th meeting held on December 05, 1997 for maintenance of post-based rosters.

Further, the Board of Governors of the Institute (in its meeting held in May 2004, vide item no. 2004.2.13) has considered and approved the proposal for grouping of staff for the purpose of reservation and separate grouping of technical and non-technical posts. The proposal was as follows – the posts under Group-A, B, C & D would be grouped separately for technical and non-technical posts. However, there would be a single group under Group-D. Under this dispensation, there would be seven groups in all and as for as possible efforts would be made to provide adequate representation of SCs, STs and OBCs to each post under the group. The proposal was approved in the context that grouping of posts would provide greater leverage for purpose of securing adequate representation for SCs, STs and OBCs in the Institute.

As per Recruitment & Career Progression Scheme (in operation at present) which is personal promotion scheme (non-vacancy linked promotion scheme), there is no promotion - based on vacancies, hence reservation in career advancement is not applicable.
Concessions/ Relaxations:

(a) The upper age bar in the Institute (as per RCPS) is as follows: Group C&D Posts – 18 to 27 years; Group B Posts – 32 years. Relaxation in age is admissible as per Central Govt. Rules. For employees of IITs who are educationally qualified can be considered for direct recruitment across the whole IIT system up to a maximum of 50 years of age. The due relaxation in upper age is made available for SC/ST, OBC, PH and Ex-servicemen candidates as per Central Govt. Rules. There is no upper age limit for Group-A Officers at the Institute.

(b) SC/ST and PH candidates are fully exempted from payment of application and registration fees:

(c) To and fro TA is being paid to the candidates of all categories out of Kanpur to attend the interview [For Group-A : 1st class/AC-III and for Group B, C & D : 2nd class rail fare];

(d) Experience requirement is relaxable at the discretion of competent authority.

(e) In addition to relaxation of experience requirement, higher initial pay is given to exceptionally qualified and deserving candidates. During the period of report, higher initial pay was given to the following employee:

(i) Two additional increments in the pay-scale of Rs.3200-85-4900 given to Shri Vijay Kumar (OBC), Junior Technician, Department of Chemical Engineering.

(ii) Two additional increments in the pay-scale of Rs.5500-175-9000 given to Shri Rajnish Dhiman (OBC), Technical Assistant, Department of Physics.

(iii) Two additional increments in the pay-scale of Rs.5500-175-9000 given to Shri Lokesh Malage (SC), Technical Assistant, Department of Chemistry.

(iv) Two additional increments in the pay-scale of Rs.5500-175-9000 given to Shri Jagdish Prasad (ST), Technical Assistant, Department of M.M.E.

Employment notification etc.:

Advertisement/ Notification is released in the Employment News with details of concessions/ relaxations to SC/ST & OBC candidates and the number of posts reserved available for them. A copy of the Advt. is sent to AIR/Doordarshan for publicity. The copies of Employment Notices/ Notifications
are sent to recognised SC/ST Welfare Associations for publicity among their members.

During the period of report, the **detail of Advts.** (internal/ external) issued through Recruitment Section is as under:

<table>
<thead>
<tr>
<th>Advt. No.</th>
<th>Name of Post(s)</th>
<th>Pay Scale</th>
<th>No. of Vacanices</th>
<th>Published in</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>SC</td>
<td>ST</td>
</tr>
<tr>
<td></td>
<td>Executive Engineer (Civil)</td>
<td>10000-15200</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Executive Engineer (Elect.)</td>
<td>10000-15200</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Assistant R &amp; D Officer</td>
<td>8000-13500</td>
<td>-</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Technical Assistant</td>
<td>5500-9000</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Junior Engineer (Elect.)</td>
<td>5500-9000</td>
<td>-</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Junior Engineer (Civil)</td>
<td>5500-9000</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Tech. Asst. (Horticulture)</td>
<td>5500-9000</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Sr. Lib. Infor. Assistant</td>
<td>5500-9000</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Sanitary Inspector</td>
<td>4500-7000</td>
<td>-</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Junior Technician</td>
<td>3200-4900</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1/2006</td>
<td>Junior Assistant</td>
<td>3200-4900</td>
<td>1</td>
<td>-</td>
</tr>
</tbody>
</table>
The recruitment for all academic posts of Institute is made through the press/ professional journals/ circulars to educational institutes etc.

Inclusion of SC/ST Member:

One SCT and/or OBC member of comparable status is included in the Selection Committee as a full member. For the period of report, the detail of Selection/ Assessment Committee meetings held through Recruitment Section is given below:

<table>
<thead>
<tr>
<th>For Selection</th>
<th>Total 18 Selection Committee meetings:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>16 S/C meeting, wherein SCT/OBC representatives included</td>
</tr>
<tr>
<td></td>
<td>02 S/C meeting, wherein OBC representatives included</td>
</tr>
</tbody>
</table>

| For Assessment | No assessment committee meeting held during the period |

Call letters for Interviews/ Appointment letters:

1. To ensure that the interview/ appointment letters are received by the candidates (including reserved category candidates) well in time – the interview/ appointment letters are being sent through UPC & registered/speed post or courier to ensure delivery.
2. Normally for interviews a minimum of three weeks’ time and for appointments a minimum of one month's period of interval is being provided.

**Reservation of Quarters:**

1. The Institute has been allotting 1st in every ten qrs. to SC/ST employees, out of Type-1A, Type-1B Type-1 and Type-II Qrs. & 1st in every twenty qrs. in Type-III, and Type-IV Qrs. (only from the pool reserved for allotment to Officers other than faculty).

The available data related to house allotment is given below for the period under reference:

<table>
<thead>
<tr>
<th>Type of house</th>
<th>Houses allotted to</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>As per Reservation</td>
</tr>
<tr>
<td>Type-IA</td>
<td>-</td>
</tr>
<tr>
<td>Type-1B</td>
<td>2</td>
</tr>
<tr>
<td>Type-I</td>
<td>3</td>
</tr>
<tr>
<td>Type-II</td>
<td>1</td>
</tr>
<tr>
<td>Type-III</td>
<td>-</td>
</tr>
<tr>
<td>Type-IV</td>
<td>-</td>
</tr>
<tr>
<td>Type – V &amp; VI</td>
<td><strong>No reservation</strong></td>
</tr>
</tbody>
</table>

2. There is no reservation in the quarters of Type –V & VI (as these quarters are more or less allotted to faculty members and other eligible officers without any discrimination of caste and creed etc.)
Complaints/ Grievances:

No letter received for redressal of grievance of a SC/ST/OBC employee.

Any Caste falsification brought to notice is also followed up by the Cell. No new case came in notice.

Apart from the above, the data, as available for showing the representation of SCs/STs & OBCs in other areas, is given below:

### A. Academic Staff:

<table>
<thead>
<tr>
<th>Area(s)</th>
<th>SC</th>
<th>ST</th>
<th>OBC</th>
<th>GEN</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appointments</td>
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<td></td>
<td></td>
<td>13</td>
<td>13</td>
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<tr>
<td>Retirement</td>
<td></td>
<td></td>
<td>07</td>
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</tr>
<tr>
<td>Deaths</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Resignation</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>V/Retirement</td>
<td></td>
<td></td>
<td>01</td>
<td></td>
<td>01</td>
</tr>
<tr>
<td>C/Retirement</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SVRS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Deputationists repatriated</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Termination</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Dismissal</td>
<td></td>
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<td><strong>Total</strong></td>
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### B. Non-Academic:

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<tr>
<td>Appointments</td>
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</tr>
<tr>
<td>a) On permanent basis (Through open Recruitment)</td>
<td>-</td>
<td>-</td>
<td>1</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>b) On compassionate grounds</td>
<td>-</td>
<td>-</td>
<td>-</td>
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</table>
c) On deputation basis  
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<thead>
<tr>
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d) On contract for 5 yrs  
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Total  
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Retirement  
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Deaths  
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V/Retirement  
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C/Retirement  
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SVRS  
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Deputationists repatriated  
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Termination  
<table>
<thead>
<tr>
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<th>ST</th>
<th>OBC</th>
<th>GEN</th>
<th>TOTAL</th>
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Dismissal  
<table>
<thead>
<tr>
<th></th>
<th>SC</th>
<th>ST</th>
<th>OBC</th>
<th>GEN</th>
<th>TOTAL</th>
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<td></td>
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Total  
<table>
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<tr>
<th></th>
<th>SC</th>
<th>ST</th>
<th>OBC</th>
<th>GEN</th>
<th>TOTAL</th>
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<tbody>
<tr>
<td></td>
<td>05+2*</td>
<td>1</td>
<td>10</td>
<td>55</td>
<td>71+2*</td>
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* Cleaners

Assessment of Group ‘A’ Officers (Non-Vacancy linked personal promotion)

<table>
<thead>
<tr>
<th>Pay-scale</th>
<th>SC</th>
<th>ST</th>
<th>OBC</th>
<th>GEN</th>
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Assessment under RCPS

Detail of Employees assessed under RCPS during 2006-07

<table>
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<th>UR</th>
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<tbody>
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<td></td>
</tr>
</tbody>
</table>
The Institute has awarded “fitment” to the employees of Group ‘B’, ‘C’ & ‘D’ under RCPS during 2006-07, as detailed below:-

Detail of Employees awarded “fitment” under RCPS during 2006-07 (Only pay-scale changed w.e.f. the date of joining or 01.5.1998, which ever is later)

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<th>SL No.</th>
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<th>ST</th>
<th>OBC</th>
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<td>5000-8000</td>
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Detail of Employees awarded “fitment” under RCPS during 2006-07 (only) (Only designation changed w.e.f. the date of joining or 01.5.1998, which ever is later)
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<th>ST</th>
<th>OBC</th>
<th>UR</th>
<th>Total</th>
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</thead>
<tbody>
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<td>-</td>
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<td>1</td>
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<td>6500-10500</td>
<td>6500-10500</td>
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<td>1</td>
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Detail of Employees awarded “fitment” under RCPS during 2006-07
(No change, means the pay-scale & designation become effective w.e.f. 01.5.1998)

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<th>ST</th>
<th>OBC</th>
<th>UR</th>
<th>Total</th>
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<td>1</td>
<td>5</td>
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<td>3</td>
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<td>5500-9000</td>
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<td>-</td>
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<td>14</td>
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</table>

Detail of Employees awarded “fitment” under RCPS during 2006-07 (Full Benefit, means pay-scale & designation changed w.e.f. the date of joining or 01.5.1998, which ever is later)

<table>
<thead>
<tr>
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<th>SC</th>
<th>ST</th>
<th>OBC</th>
<th>UR</th>
<th>Total</th>
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</thead>
<tbody>
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<td>3</td>
<td>7</td>
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</tbody>
</table>
In addition to above, the data, as available for showing the **representation of SCs/STs & OBCs related to existing strength** of the employees at the Institute, is given below:

### A. Existing Strength of Academic Staff (Teaching/Non-teaching) as on 01.04.2007:

**Recruited through DOFA Office**

<table>
<thead>
<tr>
<th></th>
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<th>GEN</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Teaching</td>
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### B. Existing Strength of Non-Academic Staff as on 01.04.2007:

**Recruited through Recruitment Section**

<table>
<thead>
<tr>
<th>Group</th>
<th>SC</th>
<th>ST</th>
<th>OBC</th>
<th>GEN</th>
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</thead>
<tbody>
<tr>
<td>A</td>
<td>5</td>
<td>0%</td>
<td>4%</td>
<td>24%</td>
<td>33</td>
</tr>
<tr>
<td>B</td>
<td>55</td>
<td>0%</td>
<td>17.50%</td>
<td>0.94%</td>
<td>231</td>
</tr>
<tr>
<td>C</td>
<td>47</td>
<td>23.15%</td>
<td>2.46%</td>
<td>14.29%</td>
<td>122</td>
</tr>
<tr>
<td>D</td>
<td>52</td>
<td>0%</td>
<td>25.24%</td>
<td>0.85%</td>
<td>206</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>160</td>
<td>8%</td>
<td>20.99%</td>
<td>0.85%</td>
<td>762</td>
</tr>
<tr>
<td>Group/ Mode</td>
<td>Stream/ Mode</td>
<td>SC</td>
<td>ST</td>
<td>OBC</td>
<td>GEN</td>
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<tr>
<td>-------------</td>
<td>--------------</td>
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<td>-----</td>
<td>-----</td>
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<tr>
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<td>7</td>
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<td>2</td>
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<td>52</td>
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<tr>
<td>BTU</td>
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<td>15</td>
<td>1</td>
<td>83</td>
<td>99</td>
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<tr>
<td>Total of Group ‘B’</td>
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<td>30</td>
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<td>CNU</td>
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<tr>
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<td>29</td>
<td>122</td>
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<td>12</td>
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<td>DU</td>
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<td>Total of Group ‘D’</td>
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<td>521</td>
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</table>

**Abbreviations:** SC-Scheduled Caste, ST-Scheduled Tribes, OBC-Other Backward Class, GEN-General, A, B, C & D – Groups, N – Non-technical, T-Technical, R- Recruited, U- Upgraded, * Not counted towards reservation
B. Existing Strength of Account-II Employees as on 01.04.2007:

Recruited Through DORD Office

<table>
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<tr>
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<th>OBC</th>
<th>GEN</th>
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<tbody>
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<td>6</td>
</tr>
<tr>
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<td>22</td>
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C. Existing Strength of Mess Employees as on 01.04.2007:

Recruited through COW Office

<table>
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<tbody>
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<td>-</td>
<td>1</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>C</td>
<td>-</td>
<td>-</td>
<td>1</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>D</td>
<td>14+7*</td>
<td>-</td>
<td>34</td>
<td>60</td>
<td>108+7*</td>
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<tr>
<td>Total</td>
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<td>-</td>
<td>36</td>
<td>67</td>
<td>117+7*</td>
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* Cleaners, not counted towards reservation

The data as available for showing the representation of SCs/STs related to the students admitted in the 1st Semester 2006-07 in various programmes/disciplines at the Institute is given below:

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<th>Registration Data in the 2006-2007 1 Semester</th>
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<tr>
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</tr>
<tr>
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<td>10</td>
</tr>
<tr>
<td>MME</td>
<td>15</td>
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<td>Programmes</td>
<td>Registration</td>
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<tr>
<td>Economics</td>
<td>00 00 17 17</td>
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<tr>
<td>Mathematics</td>
<td>08 00 25 33</td>
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<tr>
<td>Physics</td>
<td>04 00 15 19</td>
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<tr>
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</thead>
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</tr>
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</tr>
<tr>
<td>ChE</td>
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<tr>
<td>CE</td>
<td>04 01 12 17</td>
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</tr>
<tr>
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<td>03 02 17 22</td>
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<tr>
<td>ME</td>
<td>03 02 13 18</td>
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<tr>
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<thead>
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<tbody>
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<td>01 00 06 07</td>
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<td>4 0 17 21</td>
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<td>Dept</td>
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Registration Data of Ph D students of 2006-07-I Semester

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</tr>
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<td>CE</td>
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<td>01</td>
<td>-</td>
<td>40</td>
</tr>
<tr>
<td>EE</td>
<td>51</td>
<td>04</td>
<td>-</td>
<td>55</td>
</tr>
<tr>
<td>ME</td>
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<td>53</td>
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<td>MME</td>
<td>21</td>
<td>04</td>
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<td>25</td>
</tr>
<tr>
<td>CHM</td>
<td>141</td>
<td>11</td>
<td>-</td>
<td>152</td>
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<td>MATH</td>
<td>55</td>
<td>-</td>
<td>-</td>
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</tr>
<tr>
<td>PHY</td>
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<td>M.Sc. (Dual Degree)</td>
<td>39</td>
<td>01</td>
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<td>PhD</td>
<td>26</td>
<td>01</td>
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<td>HSS</td>
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<td>14</td>
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<td>MSP</td>
<td>08</td>
<td>03</td>
<td>-</td>
<td>11</td>
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<td>STA</td>
<td>07</td>
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<td>07</td>
</tr>
<tr>
<td>IME</td>
<td>16</td>
<td>02</td>
<td>-</td>
<td>18</td>
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<td>NET</td>
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<td>-</td>
<td>-</td>
<td>03</td>
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<td>BSBE</td>
<td>36</td>
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<td>01</td>
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<tr>
<td>TOTAL</td>
<td>619</td>
<td>41</td>
<td>02</td>
<td>662</td>
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</tbody>
</table>
RAJBHASHA PRAKOSHTHA

IIT Kanpur is an Institute of National importance where students from all over the country and abroad are admitted for higher education in Science, Engineering, Technology and Humanities disciplines. Therefore, the English language has been adopted as the medium of instruction / syllabus, Research and Academic Activities.

Rajbhasha Prakoshtha was established in the Institute in September 1986. It has got its own office which is equipped with two bilingual personal computers for smooth and efficient working. It is managed by a liaison officer, Assistant Registrar, a senior Stenographer (Hindi) and a Technical Assistant (Translation). The Rajbhasha Prakoshtha is effortive in creating awareness of Hindi among the Institute employees. "Sansthan Rajbhasha Karyanvayan Samiti " constituted by Director monitors and provide guidence to the Rajbhasha Prakoshtha in its planning and performance. The Rajbhasha Prakostha performs various activities like organisation of Hindi Diwas, Hindi workshop and holds meetings for promoting the atmosphere of Rajbhasha in the Institute round the year.

The Rajbhasha Prakostha has adopted the following policies.

1. Entire correspondence with Group D employees are done in Hindi.
2. All Hindi letters are replied in Hindi.
3. All routine forms and the heading of Registers have been printed bilingually in most of the departments of the Institute.
4. The name plates, office stamps, signboards, letter heads, and envelopes etc, have been made bilingual. 15 LDCs/UDCs have been trained in Hindi type under the Hindi training programme organised by the Hindi Shikshan Yojana kanpur. Similarly 4 "Stenographers have been trained in Hindi Stenography under the scheme.
5. Regular classes of Probodh, praveen & Pragya for the Non Hindi speaking employees have already been started. 11 Non Hindi speaking employees have been trained in Prabodh, Praveen and 8 trained in Pragya.
The act and the Statutes of the Institute have been made bilingual.

The Annual Report of the Institute for the year 2005-2006 and the audit Report 2005-2006 received from Account Section/AG, UP were translated into Hindi and a fair copies typed for submission to the ministry.

The press release and invitation cards for the convocation were issued bilingually. All periodical reports were sent to the Ministry and the Nager Rajbhasha Karyanvayan Samiti in time.

In compliance to the directives of Official Language Department, New Delhi, Hindi week was observed by conducting various competitions and on 14 Sept. 2006 Hindi Diwas samaroh was held in the Lecture Hall complex, in which the winner of various competitions were honoured with suitable books awards.

**Following Competitions were held from 08.09.06 to 14.09.07:**

a) Dictation competition (Fourth class employees)
b) Dictation Compt. (Non Hindi Speaaking Employees)
c) Noting Drafting Compt.
d) Hindi essay competition
e) Poetry recitation competition

Winner of the above competition were as under:

**A. Dictation Competition (Fourth Class)**

1. Smt. Pramod Tripati  
   1st
2. Shri Arvind Panday  
   IIInd
3. Shri Om Prakash  
   IIIrd

**B. Dictation Competition (Non Hindi Employees)**

1. Shri Binu S  
   1st
2. Shri Pradeep Kumar  
   IIInd
3. Shri P. Kadigachalam  
   IIIrd

**C. Noting and Drafting Competition**

1. Md. N. Khan  
   1st
2. Smt. Madhu Agnihotri  
   IIInd
3. Shri Ravi Shankar Shukla  
   IIIrd
D. Debate Competetition (Campus School)

1. Ms. Ratna Pal  
2. Ms. Suneeta Singh  
3. Ms. Sarita Nigam

E. Poetry Recitation Competition

1. Shri Ram Lakhan  
2. Shri S.N. Tripathi  
3. Shri Rajesh Srivastava

During the year 2005-2006 about 112 letters from Directorate, 217 letters from Registrar’s office, 300 letters/circulars along with Hindi translation from Administration Section and 228 letters were issued in Hindi.

Rajbhasha Prakoshtha is dedicated for the upliftment of Hindi at the Institute. It is always prepared to co-ordinate with each and every department of the Institute in the implementation of the orders and directives received time to time from the Ministry of Human Resource & Development, Govt of India.

MEDIA TECHNOLOGY CENTER

The Media Technology Center is an attempt to encourage and cultivate a sense of appreciation and explores the skills involved in the new media for creative expressions. Center aims to provide a meaningful platform for the students of the Indian Institute of Technology Kanpur to foster their creative potentials and merge it with their gradual process of acquiring and exchanging knowledge with technology based education at the Institute.

Media Technology Center successfully completed the first phase of National Program on Technology Enhanced Learning (NPTEL) by producing quality video and web based courseware in six major engineering and science disciplines for supporting technology based education that would have a far reaching impact on larger Education system through television and web media. The Ministry of Human Resource and Development supported the initiative for the last few years.
Students of the Communication Design in the Design Program have a direct relevance to the Center with their academic course work. The resources and expertise are shared to create a range of productions ranging from documentary films to commercial ads.

At the International Ability Film Festival, Chennai two of our design students S.Jayesh Pillai and V S Haveesh Vemuri's short Film - "Chal" was selected to be screened and bagged the third prize. At RGB '07, annual Design Festival held at the National Institute of Design, Ahmedabad our students S.Jayesh Pillai, Prantik Banerjee and Meera Sudhir Mangrulkar got loads of applauds for their film which took the 1st prize in "Camera Buff".

In the long term, Media Technology Center aims to create a digital portal as an archive of supportive materials to serve educational purposes and research references in the field of Engineering, Science and Technology, Humanities and Management studies as well as in the relevant areas of National Heritage and Culture. The relevant information can be utilized for classroom teaching, student references and research aid.

Committed manpower and resources of the Media Technology Center is involved round the year, providing its support in various academic and non-academic events.
Finance

The Ministry of Human Resources & Development (MHRD) has released Rs. 6800.00 lakh as Non-Plan Grant and 3860.00 lakh as Plan Grant in the financial year 2006-2007.

NON-PLAN

The total receipt under Non-Plan during the financial year 2006-07 from Ministry of Human Resources & Development, Government of India is Rs. 6800.00 lakh. The Institute has also generated its own Internal Receipts of Rs. 1884.76 lakh, which includes Rs. 738.97 lakh as student fees, Rs. 407.04 lakh interest earned on investments/bank balances and Rs. 738.75 lakh as other miscellaneous income.

The Institute has also withdrawn an amount of Rs. 153.65 lakh from Endowment fund account of the Institute for Non Plan activities during the financial year 2006-07.

The total Non Plan expenditure during the financial year 2006-07 comes out to Rs. 8838.71 lakh against the total earnings of Rs. 8838.41 lakh.

PLAN

A total receipt under Plan during the financial year 2006-07 is Rs. 3860.00 lakh grant-in-aid under Plan from the MHRD, Government of India.

The total expenditure under Plan has been restricted to Rs. 4130.30 lakh. This expenditure includes Rs. 1837.27 lakh on Building & Works and Central AC Facility, Rs. 1289.93 lakh on Non-Consumable purchases including Equipment, Furniture & Fixtures etc., Rs. 686.01 Lakh on Library Books and Periodicals & Journals and 317.09 lakh on other activities (Includes Rs. 265.20 lakh for IET - Noida).

The Institute has also withdrawn an amount of Rs. 265.20 lakh from Endowment fund account of the Institute for Plan activities i.e., Rs. 265.20 lakh for IET – Noida during the financial year 2006-07.

The total Plan expenditure during the financial year 2006-07 comes out to Rs. 4130.30 lakh against the total receipt of Rs. 4125.20 lakh and an unspent balance of Rs. 5.10 lakh in the last financial year.
## INCOME AND EXPENDITURE UNDER MAJOR HEADS

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Particulars</th>
<th>Income (Rs. In Lakh)</th>
<th>Expenditure (Rs. In Lakh)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Non- Plan</td>
<td>8838.41</td>
<td>8838.71</td>
</tr>
<tr>
<td>2</td>
<td>Plan</td>
<td>4125.20</td>
<td>4130.30</td>
</tr>
<tr>
<td></td>
<td>Opening Balance of Plan Grant</td>
<td>5.10</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Other Operational Funds</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>GPF/CPF</td>
<td>1138.97</td>
<td>837.89 (Non Plan)*</td>
</tr>
<tr>
<td>4</td>
<td>JEE</td>
<td>433.14</td>
<td>384.27 (Non Plan)*</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3.55 (Plan)</td>
</tr>
<tr>
<td>5</td>
<td>GATE</td>
<td>353.29</td>
<td>276.81 (Non Plan)*</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2.38 (Plan)</td>
</tr>
<tr>
<td>6</td>
<td>GATE (JMET)</td>
<td>11.33</td>
<td>2.47 (Non Plan)*</td>
</tr>
<tr>
<td>7</td>
<td>Research &amp; Development</td>
<td>713.92</td>
<td>281.43 (Non Plan)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>116.18 (Plan)</td>
</tr>
<tr>
<td>8</td>
<td>Deans Capital Fund</td>
<td>53.17</td>
<td>27.16 (Non Plan)*</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>10.35 (Plan)</td>
</tr>
<tr>
<td>9</td>
<td>Hall Management</td>
<td>329.16</td>
<td>340.54 (Non Plan)*</td>
</tr>
<tr>
<td>10</td>
<td>Fund Hall Management</td>
<td>70.92</td>
<td>44.49 (Non Plan)*</td>
</tr>
<tr>
<td>11</td>
<td>Pension Hall Management</td>
<td>55.79</td>
<td>57.19 (Non Plan)*</td>
</tr>
<tr>
<td>12</td>
<td>Student Gymkhana</td>
<td>35.48</td>
<td>19.67 (Non Plan)*</td>
</tr>
</tbody>
</table>
Endowment Report

The total amount of donation rose from 2.5 crore in 2005-06 to Rs. 5.5 crore in 2006-07.

The number of alumni donors to IITK doubled from 295 in 2005-06 to 623 alumni in 2006-07. There has been a four-fold increase in this number in two years from 142 alumni donors in 2004-05.

Eleven new chairs, seventeen new scholarships and several awards have been instituted during the financial year. Partial travel support from the donations enabled 71 students to participate in conferences overseas as compared to 43 last year. During the year, a cash award for publishing journal papers was introduced for the students through the donations: 204 students received a total of Rs. 26.11 lakh under the Programme. Five new faculty members of the Institute availed partial travel support from the donations for participation in conferences overseas.

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Purpose</th>
<th>2005-06</th>
<th>2006-07</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Faculty Support (Chairs)</td>
<td>34.3</td>
<td>339.8</td>
</tr>
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<td>2</td>
<td>Student Support</td>
<td>64.9</td>
<td>57.3</td>
</tr>
<tr>
<td></td>
<td>(Scholarships etc)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Annual Gift Programme</td>
<td>12.74</td>
<td>48.6</td>
</tr>
<tr>
<td>4</td>
<td>Departments</td>
<td>52.6</td>
<td>14.1</td>
</tr>
<tr>
<td>5</td>
<td>Batch funds</td>
<td>94.6</td>
<td>42.4</td>
</tr>
<tr>
<td>6</td>
<td>Miscellaneous</td>
<td>5</td>
<td>29.7</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>264.14</strong></td>
<td><strong>531.9</strong></td>
</tr>
</tbody>
</table>
FACILITIES TO STUDENTS

1. RESIDENTIAL ACCOMMODATION FOR STUDENTS

Hall of Residences:

IIT Kanpur is a residential Institute and thus requires that all students registered for a degree programme in the Institute reside in the Campus itself. Therefore, all students except (i) married students who are allotted alternative accommodation in single bedroom apartments (SBRA) and (ii) students who are wards of campus residents, are provided room accommodation in the Halls of Residences with mess and other facilities. Students, who are wards of campus residents, as a special case, are permitted to stay with their parents on the campus.

The Institute has eight Halls of Residence for boys, namely Hall I to Hall-IX, and two for girls (GH) with total capacities of 3550 and 450 for boys and girls respectively. In addition, there is accommodation for 72 students in single bedroom apartments (SBRA).

The Halls have single and double-seated rooms. Presently, most of the senior undergraduate and all post graduate students are given single-seated rooms, while most of first and second year and some third year B. Tech. and M. Sc., (Integrated) students and Ist year M. Sc. (2-Year) are living in double seated rooms. Each Hall has a mess of which every hall resident is a member. The Halls of Residence also have a well subscribed reading room, TV room, TT rooms, PC room, badminton and volley ball courts, canteen, library (with the books on general topics) and several hobby clubs. The affairs of these amenities in each Hall are managed by (i) the respective committee of students for the amenities and (ii) a central Hall Executive Committee (HEC) under the overall guidance and supervision of three wardens (two for Hall-IX). The overall management of the Halls of residence is through the Central Hall Management Council (HMC). The Council of Wardens (COW) looks after the affairs of mess workers.

In addition to students, staffs working in various research projects of the Institute are also provided accommodation in the halls depending upon the availability of the rooms. The boarding and lodging arrangements for the participants of conferences and short-term courses are also made in the Halls of Residence.
Single Bed Room Apartments (SBRAs)

Depending on the availability, the accommodation in single bedroom apartments (SBRA) is provided to married students. In exceptional cases bachelors, on specific medical grounds, may also be provided SBRA accommodation. A Married Students Welfare Committee (MSWC) manages the affairs of SBRAs under the supervision of the Warden-in-Charge.

1. FINANCIAL ASSISTANCE TO STUDENTS

All possible efforts are made by the Institute to render financial assistance (i) in the form of scholarships and (ii) short-term loans to needy and deserving students during their stay at the Institute. Short-term loans are given to some students, depending on the requirement of the case, out of the Students' Benefit Fund (SBF) so that their minor financial emergencies are overcome. The details of the financial assistance offered to the students at the Institute are given below:

<table>
<thead>
<tr>
<th>Loan</th>
<th>Short Term</th>
<th>Long Term</th>
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</thead>
<tbody>
<tr>
<td>Short Term</td>
<td>20</td>
<td>09</td>
</tr>
<tr>
<td>Long Term</td>
<td>18</td>
<td>--</td>
</tr>
</tbody>
</table>

SCHOLARSHIPS FOR UNDERGRADUATE STUDENTS

Merit-cum-Means scholarships of the value of Rs. 1000/- per month with tuition fee waiver are awarded per semester to students up to 25% of the total strength enrolled in each of the batches of the B. Tech., M. Sc. (Integrated), B. Tech-M. Tech. Dual degree and M. Sc. (2-year) programmes provided that the income of their parents does not exceed Rs. 2,00,000.00 per annum. SC/ST students not in receipt of scholarships from any other source including the State Governments or Directorate of Harijan and Social Welfare are eligible for the Free Basic Mess (scholarships).

In addition, several students of the B. Tech. /M. Sc. (Integrated) and M. Sc. (2-year) programmes are in receipt of the financial assistance through scholarships, stipends and grants from Central and State Governments, Directorate of Education and other organizations. Table-I shows various scholarships awarded to undergraduate students during 2006-07.

<table>
<thead>
<tr>
<th>Undergraduate Scholarships</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>I</td>
</tr>
<tr>
<td>MCM @ Rs. 1000/- p.m. with Freeship</td>
<td>139</td>
</tr>
<tr>
<td>Freeship</td>
<td>4</td>
</tr>
<tr>
<td>Free Basic mess plus Pocket Allowance @ Rs.250/- p.m.</td>
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</tr>
<tr>
<td>Lalit Narain Das Memorial Scholarship</td>
<td>--</td>
</tr>
<tr>
<td>Kinra Scholarships</td>
<td>1</td>
</tr>
<tr>
<td>Indian Women’s Association-Bonn Scholarships</td>
<td>--</td>
</tr>
<tr>
<td>Neeraj Kapoor Memorial Scholarships</td>
<td>--</td>
</tr>
<tr>
<td>Ram Rajendra Malhotra Educational Society Scholarships</td>
<td>3</td>
</tr>
<tr>
<td>Pt. Balajee G. Hardiker Scholarship</td>
<td>1</td>
</tr>
<tr>
<td>Dr. V. Rajaraman Scholarships</td>
<td>--</td>
</tr>
<tr>
<td>Dr. D. R. Bhagat Scholarships</td>
<td>--</td>
</tr>
<tr>
<td>Arakere &amp; Vasudev Nigam Scholarship</td>
<td>--</td>
</tr>
<tr>
<td>Govinda &amp; Indira Srikanth Scholarship</td>
<td>--</td>
</tr>
<tr>
<td>Anil and Reshma Nigam Scholarship</td>
<td>--</td>
</tr>
<tr>
<td>Anurag Bartaria Scholarship</td>
<td>--</td>
</tr>
<tr>
<td>Prof. Netar Lal Kapur Scholarships</td>
<td>--</td>
</tr>
<tr>
<td>Vasudeo Laxman Sahasrabuddhe Vaidya Scholarship</td>
<td>--</td>
</tr>
<tr>
<td>P. D. Murti Memorial Scholarship</td>
<td>--</td>
</tr>
<tr>
<td>Nita Goyal &amp; Ashish Gupta Scholarships</td>
<td>1</td>
</tr>
<tr>
<td>Simran-Mandeep Kainth Memorial Scholarship</td>
<td>--</td>
</tr>
<tr>
<td>Dilip Kohli Memorial Scholarship</td>
<td>--</td>
</tr>
<tr>
<td>Mona &amp; Paramjit Singh Scholarship</td>
<td>--</td>
</tr>
<tr>
<td>Baljit &amp; Nirmal Dhindsa Scholarship</td>
<td>1</td>
</tr>
<tr>
<td>Dr. Hari Mohan &amp; Pushpa Srivastava Scholarship</td>
<td>--</td>
</tr>
<tr>
<td>Scholarship Name</td>
<td>1</td>
</tr>
<tr>
<td>-------------------------------------------------------</td>
<td>---</td>
</tr>
<tr>
<td>Prof. CNR Rao Science-Talent Scholarship</td>
<td>1</td>
</tr>
<tr>
<td>Sri Kalpa Nath Singh Scholarship</td>
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</tr>
<tr>
<td>N. S. Rajaraman Scholarship</td>
<td>1</td>
</tr>
<tr>
<td>Sri Temasek @ IITK Scholarship</td>
<td>--</td>
</tr>
<tr>
<td>Smt. Jagat Kaur Memorial Scholarship</td>
<td>--</td>
</tr>
<tr>
<td>Sri Jamuna Das &amp; Basanti Gupta Scholarship</td>
<td>--</td>
</tr>
<tr>
<td>Shanti Devi &amp; Onkar Nath Maewal Scholarship</td>
<td>--</td>
</tr>
<tr>
<td>Romesh Chandra Memorial Scholarship</td>
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</tr>
<tr>
<td>ONGC Scholarship</td>
<td>--</td>
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<tr>
<td>NTS Scholarships</td>
<td>24</td>
</tr>
<tr>
<td>Punjab Education Board</td>
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</tr>
<tr>
<td>SBI Scholarships</td>
<td>3</td>
</tr>
<tr>
<td>Post Matric Scholarships (AP)</td>
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</tr>
<tr>
<td>PNB Scholarships</td>
<td>--</td>
</tr>
<tr>
<td>CSIR Scholarships</td>
<td>--</td>
</tr>
<tr>
<td>Coal India Scholarships</td>
<td>--</td>
</tr>
<tr>
<td>Tata Iron Steel Co. Ltd.</td>
<td>1</td>
</tr>
<tr>
<td>BSNL</td>
<td>2</td>
</tr>
<tr>
<td>Indian Oil Scholarships</td>
<td>--</td>
</tr>
<tr>
<td>KVPY Scholarships</td>
<td>5</td>
</tr>
<tr>
<td>Central Coal fields</td>
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</tr>
<tr>
<td>Government of Rajasthan</td>
<td>--</td>
</tr>
<tr>
<td>Government of UP</td>
<td>--</td>
</tr>
<tr>
<td>Pratibha Scholarships</td>
<td>7</td>
</tr>
<tr>
<td>Government of Maharashtra</td>
<td>--</td>
</tr>
</tbody>
</table>
TABLE-I (B): Scholarships for M. Sc. (2-year)/ M. Sc. - Ph. D. Dual degree 2006-07

<table>
<thead>
<tr>
<th>Undergraduate Scholarships</th>
<th>M. Sc. (2-years)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>I-year</td>
</tr>
<tr>
<td>MCM @ Rs. 1000/- p.m. with Freeship</td>
<td>27</td>
</tr>
<tr>
<td>Freeship</td>
<td>--</td>
</tr>
<tr>
<td>Free Basic Mess Plus Pocket Allowance @ Rs.250/- p.m.</td>
<td>9</td>
</tr>
<tr>
<td>Dr. R. C. Srivastava Memorial Scholarship</td>
<td>--</td>
</tr>
<tr>
<td>ACC Scholarships</td>
<td>2</td>
</tr>
<tr>
<td>Smt. Durga Devi Memorial Scholarship</td>
<td>--</td>
</tr>
</tbody>
</table>

Student's Benefit Fund (SBF) also provides scholarships of the value of Rs. 600/- per month to the needy students. 54 scholarships from the SBF were provided during the year 2006-07.

POSTGRADUATE STUDENTS

The amount of teaching/research assistantship or fellowship for M. Tech. students is Rs. 5000/- per month while that for Ph. D. students in engineering disciplines was (a) Rs. 9500/- for first two years and (b) Rs. 10,000/- for subsequent years. The amount of assistantship or fellowship for Ph. D. students in Sciences and Humanities & Social Science was (a) Rs. 8000/- per month for the first two years of their programmes and (b) Rs. 9000/- per month for subsequent years, with stipulation that these students are expected to devote up to eight hours per week towards job(s) assigned to him/her.

EDUCATIONAL GRANTS TO POSTGRADUATE STUDENTS

The Institute gives financial assistance to the M. Tech. / Ph. D. students who are in receipt of Institute scholarship in the form of grant for (a) the preparation of thesis, (b) purchase of books and stationary items and (c) charges for photocopying. The amounts of grants given under these heads are summarized in Table-II.
Table-II: Amount of Educational Grants given to Postgraduate Students

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Items of Expenditure</th>
<th>Ph. D.</th>
<th>M. Tech.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Thesis Preparation Aid</td>
<td>3,000.00</td>
<td>750.00</td>
</tr>
<tr>
<td>2.</td>
<td>Purchase of Stationary Items and payment of photocopying</td>
<td>5,000.00</td>
<td>1000.00</td>
</tr>
<tr>
<td></td>
<td>charges or purchase of books</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

3. SPECIAL ASSISTANCE TO SC/ST STUDENTS

Rules for admission to undergraduate programme through JEE are relaxed for the SC/ST categories of students. 15% of seats are reserved for the Scheduled Caste (SC) and 7.5% for the Scheduled Tribes (ST) students. A separate merit list is drawn for those SC/ST students, who appear for the Joint Entrance Examination. Cut-off point for calling them for the Counselling and thereafter for the offer of admission is based on the relaxed criteria.

In addition, SC/ST students are also selected from among the list of students who do not qualify for the admission for a one year preparatory course scheme.

All the SC/ST category students get tuition fee waiver irrespective of their parent's income. Concession of free messing (basic menu only) plus pocket allowance of Rs. 250/- per month and room rent exemption are admissible to these SC/ST category students whose parents income does not exceed Rs. 2,00,000/- per annum, in the previous financial year.

While granting any financial assistance other than the teaching/research assistantship or fellowship available to all the students, including SC/ST students, the SC/ST students are given special consideration.

4. AWARDS AND PRIZES TO MERITORIOUS STUDENTS

The students at IIT Kanpur are engaged throughout their programme in various academic, co-curricular and extracurricular activities. The outstanding students are given various awards and prizes for their achievements in their activities. Table-III shows the awards and prizes given during 2006-07. In addition, 7% students in order of merit in each year are given a Certificate of Merit and a cash prize of Rs. 400/- for UG and Rs. 600/- for PG students.
TABLE-III: AWARDS AND PRIZES (2006-07)

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Awards and Prizes</th>
<th>B. Tech./ M. Sc. (Intg.)/Dual degree</th>
<th>M. Sc. (2-Year) / Dual degree</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>President Gold Medal</td>
<td>2</td>
<td>--</td>
</tr>
<tr>
<td>2.</td>
<td>Directors Gold Medal</td>
<td>1</td>
<td>--</td>
</tr>
<tr>
<td>3.</td>
<td>General Proficiency Medal</td>
<td>12</td>
<td>4</td>
</tr>
<tr>
<td>4.</td>
<td>Proficiency Medal</td>
<td>16</td>
<td>6</td>
</tr>
<tr>
<td>5.</td>
<td>Cadence Gold Medal</td>
<td>1</td>
<td>--</td>
</tr>
<tr>
<td>6.</td>
<td>Cadence Silver Medal</td>
<td>1</td>
<td>--</td>
</tr>
<tr>
<td>7.</td>
<td>Prof. Adidam S. R. Sai Memorial Gold Medal</td>
<td>1</td>
<td>--</td>
</tr>
<tr>
<td>8.</td>
<td>Prof. Adidam Sri Ranga Sai Memorial Medal</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>9.</td>
<td>Ratan Swarup Memorial Prize</td>
<td>1</td>
<td>--</td>
</tr>
<tr>
<td>10.</td>
<td>Banco Foundation Prize (ME)</td>
<td>1</td>
<td>--</td>
</tr>
<tr>
<td>11.</td>
<td>Dr. Shanker Dayal Sharma Medal</td>
<td>1</td>
<td>--</td>
</tr>
<tr>
<td>12.</td>
<td>Prof. Vijay Mahajan Gold Medal</td>
<td>1</td>
<td>--</td>
</tr>
<tr>
<td>13.</td>
<td>Dr. S. D. Bokil Memorial Medal</td>
<td>2</td>
<td>--</td>
</tr>
<tr>
<td>14.</td>
<td>Sangeeta Pradhan Memorial Medal</td>
<td>--</td>
<td>1</td>
</tr>
<tr>
<td>15.</td>
<td>Batra Gold Medal</td>
<td>2</td>
<td>--</td>
</tr>
<tr>
<td>16.</td>
<td>IEEE/Pedes’96 Award</td>
<td>1</td>
<td>--</td>
</tr>
<tr>
<td>17.</td>
<td>Bhagwani Devi Maheshwari Gold Medal</td>
<td>1</td>
<td>--</td>
</tr>
<tr>
<td>18.</td>
<td>Syngenta Excellence Award</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>19.</td>
<td>Tata Consultancy Services Prize</td>
<td>2</td>
<td>--</td>
</tr>
<tr>
<td>20.</td>
<td>Prof. Bal Deva Upadhyaya Memorial Gold Medal</td>
<td>1</td>
<td>--</td>
</tr>
<tr>
<td>21.</td>
<td>Mars G. Fontana Prize (MME)</td>
<td>1</td>
<td>--</td>
</tr>
<tr>
<td>22.</td>
<td>N. Balakrishnan Award</td>
<td>1</td>
<td>--</td>
</tr>
<tr>
<td>23.</td>
<td>Prof. J. N. Kapur Prizes</td>
<td>2</td>
<td>--</td>
</tr>
</tbody>
</table>
25. Smt. P. K. Subbulakshmi Memorial Award 1 --
26. Gargi, Kritika & Maitreyi Awards 3 --
27. Sridhar Memorial Prize (EE) 1 --
28. Ajai Agarwal Memorial Prize (ME) 1 --
29. Jayesh Memorial Award 4 --
30. Dr. Sangeeta Goel Memorial Award 1 --
31. Notional Prizes (UG) 106 6
32. Notional Prizes (PG) 49 (M. Tech.)
33. O. P. Bajaj Memorial Award 1 --
34. Amit Saxena Memorial Award 1 --
35. Aditya Birla group of Industries Scholarships 6 --
36. Lucent Scholarships 1 --
37. GE Fund Scholarships 2 --
38. INLAKS Scholarship 2 --
39. Goldman Sachs Global Leaders Program 1 --
40. Tata Mellenium Scholarships 6 --

5. ACTIVITIES OF STUDENTS’ GYMKHANA
As mentioned above, academic activities are only one facet of student's life at IIT Kanpur. Our students actively participate in various extra and co-curricular activities focussed towards the holistic development of their mind and body. The year 2006-2007 also saw a very active calendar in the form of various games and cultural events.

GAMES AND SPORTS ACTIVITIES
In the arena of sports IIT Kanpur came up with a creditable show in the inter IIT sports meet held at IIT Guwahati. The team finished fourth in the General championship and had a number of podium performances both in the team and individual events. To strengthen the sports culture, an inter-hall games event called JOSH was also organized which witnessed mass participation from the students.
The Nature Club organized several Bird Watching expeditions, and to the surprise of many found out very rare species of birds in our own IIT Campus. The Club also organized tree-labeling Campaigns. The Club also started on a new activity which is Insect Study which has now many enthusiastic participants.

The Tae-kwon-do Club is growing slowly but steadily. The Club has now more than two hundred members who come regularly. The Club is also taking out students to take part in the District Championships where the students performed credibly.

Udghosh’06

Udghosh’06, which was organized from 21st to 24th September’06, witnessed mass and quality participation from outside colleges. Some of the salient features of the festival were as under:

Total number of outside participants was 527 from various colleges from the country. The size of the IITK contingent was around 130.

All the standard Inter IIT competitive events were organized except for Waterpolo due to the teams not turning up. Participation was scaled up in some events witnessing less colleges over the past years.

Informals such as Chess, Carrom and Slow cycling were also conducted with a huge participation from outside colleges as well as IITK people. The enthusiasm for Chess amongst IITK students was particularly noticeable.

The event was scaled up in terms of quality, mass and security vigilance. Marketing team was made for the first time to fetch sponsorship and we were able to attain success in this front by getting Institute team kits and equipments getting sponsored.

The dedicated team of volunteers of the Security team along with the HECs of different halls and the SIS ensured smooth conduct of the festival.

No untoward incident took place and all of the participants and particularly the IITK students cooperated well to maintain the discipline during the conduct of the festival.

The opening ceremony was done in unique manner by inviting Brigadier B. K. Sharma (Sena Medal) Station Commander, 62 Inf. BDE being the Chief Guest and Hon’ble Deputy Director Prof. Kripa Shanker and the Dean of Students Affairs Prof.
Prawal Sinha, amongst the other dignitaries present. The march-past of all the college contingents was escorted by the Pipe Band of 5th Kumaon Regiment in an exotic fashion.

As advised by the Dean-Students Affairs, a meeting with the contingent leaders was convened every night to address issues if any. All schedules were made as per the convenience of every team during the event every night ensuring no clashes whatsoever.

IIT Kanpur students excelled in almost every event winning Gold Medals in Athletics (Men), Basketball (Men), Badminton (Men and Women), Cricket, Hockey, Football, Tennis, Volleyball, Weightlifting and Silver Medals in Basketball (Women), Table Tennis (Women).

IIT Kanpur came well ahead of all the competitors winning the General Championship. SGSITS - Indore, the second in the points tally was given the General Championship of Udghosh’06.

The participants were quite satisfied with the Hospitality of IIT Kanpur and the keenness of the organizing team to sort out their problems at the earliest.

CULTURAL ACTIVITIES

Antaragni’06

Antaragni ’06 was conducted from the 2nd to 5th November 2006. Nearly 80 colleges and 1400 participants from across the country visited the institute to participate in the four day event. In many ways, Antaragni ’06 was bigger and better than ever before. Firstly, Antaragni managed to get the highest amount of funds the festival has ever seen in history. This directly translated into better shows, more enthusiasm and more fun. Secondly, Antaragni broke the shell of a traditional cultural festival. It came out with a purpose, a campaign to show the youth a path they could take up which would help in nation building. The idea was drilled through poster campaigns and competitions. The biggest step in this direction was the panel discussion in which Anna Hazare, Madhu Bhaduri and Aruna Roy, among others, discussed and deliberated over the Right to Information Act. We also had an online essay writing contest on the Right to Information Act, which only helped spread the Antaragni fever all over the country like never before. Thirdly, Antaragni got its biggest media coverage with national level television channel MTV coming down to the campus with Nikhil Chinnappa and Ranvijay, two of the most successful VJs Indian television has seen. Fourthly, we had students from places as far as Chennai and Kochi come in, and this contributed to the diversity the festival saw in its participation. The festival
was opened to local colleges for participation after a hiatus of three years, as we tried to expand both inward and outward.

Antaragni ’06 kick started on 2nd November 2006 at 6 PM when Deputy Director Dr Kripa Shankar, Festival Chairman Dr Satyaki Ray, Dean of Student Affairs Dr Prawal Sinha lighted the inauguration lamp. A mimicry performance by Padma Shree Dr. N. Venumadhav followed the opening ceremony. Astad Deboo, invited all the way from the UK, followed this up with a modern dance performance, the like of which has never been seen in IITK before. This was followed by a fusion music concert by Grammy winner Pdt. Vishwa Mohan Bhatt, an accomplished fusion musician and a captivating performer. Meanwhile, Antaragni flared elsewhere as well. Informal events like Dares, Blind Dates, Treasure Hunts and quizzes were conducted at the Mall every evening. These catered to the crowd perennially present at the SAC. Movie shows were scheduled every night in an elegantly constructed Open Air Theatre, and with the multi-cuisine food court in attendance until the wee hours of the morning, the SAC remained alive 24/4. The day ended with the much talked about discotheque, Calypso, which saw eager, long queues and high energy. This was a regular feature on the first three nights of the festival.

Day two at Antaragni saw the fest come into its own, with almost all major events kicking off big time. Dramatics, musicals, dance events, English literary events, Hindi literary events, fine arts events – performers in every sphere came forward to show us what they had. India Haat opened in the SAC grounds, and continued to regale audiences for the next two days. Rithambhara, the fashion show, saw it preliminary round on this day. A salsa workshop, too, was held. This was a first in Antaragni history. Professionals were called in from Lucknow to conduct the workshop from days two to four of the festival. The day ended with Synchronicity, which, to put it simply, rocked. Parikrama, India’s biggest rock band, set the stage on fire like only Parikrama can. This year also saw the return of the rock competition as a part of Synchronicity after many years. We had bands come in from as far as Mizoram to participate.

Day three saw new competitive events kick off, with the quizzes also hitting the scene. Prelims for Mridaksh, the personality contest, were held today. Nukkad, the street play competition, was one of the highlights of the day, with the home team showing us once again why it is the best. Rithambhara finals were also held today, with the best fashion design colleges in the country putting up a killer show. Day three saw another Antaragni first – the Karaoke Night. KJ Subz, India’s only Karaoke jockey and an IITK alumnus, entertained crowds in the OAT in the evening, adding to the festive cheer in the process. The day ended with another powerhouse professional performance, this time by up and coming Pakistani rock band Bandish.
Day four saw the competitive events wrap up. MTV came to town, and how! Two panel discussions were held left and right – one at the airstrip and another in the lecture hall complex. Both were aired on national television by MTV. MTV DJs Nikhil Chinnappa and Ranvijay roamed the campus all day long, talking to students, and the channel caught the conversations on camera to be shown later on TV. A special performance of the street play was given for the channel’s benefit in the SAC. All this meant phenomenal media coverage for the fest. The fest came to a close with Nikhil Chinnappa introducing Euphoria, one of the most successful bands this country has seen, on stage. The gala performance was a fitting end to a larger-than-life four days here at IITK.

A few firsts:

1. 1400 participants from outside the campus.
2. The Salsa workshop.
3. The Karaoke Night.
4. The rock competition (held after a long time).
5. A professional performance on every day of the fest.
6. Phenomenal media coverage on national television.

The home team put up an exceptional overall performance.

Antaragni ’06 was incident free with the security team performing exceptionally well.

FILM FESTIVAL

Umang 07

Students Film Society (SFS) has organized its Annual Film Festival Umang 07 from 11th to 14th January 2007. There was quality participation from the students in Animation Contest, Director’s cut, Treasure hunt and Antakshari. There was active participation by the non IITK students in Director’s cut, treasure hunt and Antakshari. In the preparation part of Director’s cut in Umang, we organized a film making workshop which was conducted by Ms. Kavita Joshi. It was organized one week before the Umang and there were active participations by the IITK students.

Some of the salient features of Umang 07 are as follows:

- The opening ceremony of Umang 07 was done by Honorable Deputy Director Dr. Kripashankar, Dean, Students Affairs Prof. Prawal Sinha and General Secretary, SFS followed by the famous Blockbuster Dilwalwe Dulhaniya Le Jayenge.
For the first time in Umang two open air theaters were running in parallel, with the movies in auditorium at the evening slots of 6:00-10:00 PM with the proper arrangements of bonfires, which were enjoyed by both the students as well as the staff community.

Total 30 movies were screened in Umang 07. The films spanned all possible genres and themes as were feasible given the timeframe, and were very well appreciated by the entire campus community.

The students community of IIT Kanpur and the participants from the outside colleges participated in making their films as a part of Umang (Director’s Cut) and the selected films here were also screened. The focus was not only on quantity but also definitely on quality. All films screened were selected after a rigorous and time exhaustive selection process. The effort of IITK students in film making was highly appreciated this time by the judges. The winner of this contest is a team from IITK where as the second prize was shared between another team of IITK and IT BHU.

All the standard events other than screening movies were carried out like Director’s cut, treasure hunt and Antakshari.

The animation contests and animation workshops were made a major part of Umang 07 and given major importance. The workshops were well-participated and the animation contests saw a lot of participation.

Total number of outside participants was 23 from three colleges NIT Kurushetra, Amity College, Delhi and IT BHU.

This time the show management team worked in an excellent manner and all the movies were started in time. Another notable feature of the film screenings was their punctuality. Barring one or two, all films were screened at exactly the correct time, and this was highly appreciated.

**TECHKRITI**

Techkriti 2007 was successfully conducted from Feb 22nd to 25th 2007. It saw an over all participation of over 1000 engineering as well as school students from all over the country. The festival was publicized with the name of Techkriti Oh Seven, basically as a publicity campaign and it sure did work off very well.
Events:

Techkriti aimed to bring in technology fashionably to the youth. The whole idea was to expose people as much as possible to technology in a glamourized way. Over the years, Techkriti had been reduced to a “festival of the geeks”. We organized Techkriti Oh Seven with an aim to capitalize on this very image and turn around the negative connotation into a fun, festive, enjoyable one.

With this motive, Techkriti Oh Seven featured a wide host of events ranging from competitive events, to workshops, to exhibitions and displays as well as performing shows, all with an aim to celebrate technology.

Most of the traditional Techkriti competitions were organized. A few events under the broad heading of Pen Drive were added. These were literary in nature. Ham Fest was formally inducted into the festival. This year saw the rejuvenation of Cosmos – the Astronomy Events and Fly High – the Aeromodelling events. Robogames was organized in the SAC area with a viewer arena large enough to accommodate in excess of 300 people at a time. This turned out to be a major attraction in the SAC area. Other events of note were SciMatEx and GetSetGo. Software Corner was “brought out” of labs, and hosted a display stall arena of its own in the CSE Grounds. An open air theater was also functional during the festival.

Techkriti Oh Seven had two professional shows. The first one was by Prof. Prahlad Vadakkepat and his group of students of the National University of Singapore who gave a couple of hours of demonstration of their world famous robots. The show was very interactive and pepped up with inputs from Dr. Vadakkepat. It found admirers in all age groups.

Another professional display was a para-jumping display by the Akash Ganga team of the Indian Air Force over the institute stadium. The Akash Ganga team is world famous for its daredevil acts and it was a treat watching them perform.

As a part of the exposure providing efforts, Techkriti Oh Seven featured a lot of workshops and interactive sessions. We had, on one hand, practical sessions on Telescope Making conducted by personnel from IUCAA Pune, Software defined radio workshop held in Hamfest with the help of specially invited hams, an Astrophotography worksop by Dr. S.P. Gupta of Amit Smriti – a Bhopal based NGO for popularizing astronomy, a Break Free workshop, the second of its kind in IIT Kanpur campus, organized under the aegis of the Break Free movement initiated by Prof. Debashish Chatterjee of IIM Lucknow, as well as a Hacking Workshop by the world famous hack-guru Ankit Fadia. On the other hand we had interactive sessions with very eminent personalities to the likes of Prof. Yash Pal – nationally acclaimed scientist and science administrator, Sri Krishan Chehel – noted memory expert, Prof. Rajesh Gopakumar – acclaimed String Theorist from HRI Allahabad, Mr. Sachin
Bansal – a social entrepreneurship advocate and Prof. Govind Swarup from the Giant Meterwave Radio Telescope national facility at Pune. He expounded on the worldwide search for extra terrestrial life (SETI programme) and the role of GMRT in the same. We also incorporated a number of popular talks by in-house speakers. We had Prof. H.C. Verma talking about Science and Technology in ancient India, Prof. A. K. Mallick on the popular elementary geometry problems and Prof. Sanjay Mittal talking about aerodynamics of kite flight.

Marketing and Budgeting:
The marketing for Techkriti 2007 was good. The budget of Techkriti crossed Rs. 20 lacs overall and we got into direct sponsorship deals with 11 companies and associations with two more. An extra effort was taken to accommodate and escort the sponsoring organisations’ personnel around the campus during the festival. As a result, the sponsors were happy with the reception they got at IIT Kanpur during the time of the festival. Such continued efforts would ensure that long lasting bonds with these organisations are made possible.

Publicity and Participation
Publicity material of this year’s Techkriti comprised of a main poster and 4 sub posters for the most popular events namely ECDC, Robogames, Endeavour and Software Corner. Apart from this we brought out color posters of 15” X 10” dimension for every event. Techkriti Oh Seven was not only a festival, it was also a design project! A large number of print designs were prepared. A special thanks is due to the design team consisting of a third year undergraduate student and a M. Des first year student is due. The TShirts as well went ahead in “celebrating the spirit of the festival”. Two designs were prepared, one was a total black shirt and another was a white shirt with black shoulders and sleeves. Both were equally popular.

It is pertinent to note here that lately a trend is emerging of lifting material from unquoted sources to prepare T-Shirts and Posters. This is alarming. Special care needs to be taken to avoid copyright violations and use of registered images/quotes. Lately a number of creative common concepts have taken off. These can be utilised wisely in designing a very good package without crossing the right side of the law in spirit as well as in letter.

In the same spirit, an effort should be taken to standardise the Techkriti Logo and tagline. This would go a long way in brand building. Registering the logo would also be desirable. These things will pave the way for a better, professional festival. A long
term goal of getting an ISO certification for the festival or else the Science and Technology Council would be desirable in a very proactive way. Not only does such a certification speak volumes about the level of expertise in the festival, it can be very judiciously used to project the right kind of image to the right audience at the right time in making corporate associations.

Participation levels were higher this Techkriti because of early invitations sent to the colleges. This process can be pre-poned even more. Quickly finalising the events and sending across a basic invitation would ensure a lot of participation. Two levels of invitations were sent for Techkriti Oh Seven. The first lot was released in November, informing people about the festival and was sent to over 1000 colleges. The second lot was sent in January to around 500 colleges, based on onsite registrations since the first invitations.

A good internal participation was expected, looking at the response to the Science and Technology Council activities this year. A smoothly functioning council shall ensure better participation. Also, since the council had undertaken a major initiative of sending IITK contingents to other colleges for exposure, the expectations of internal participation were higher. It was reflected to a good extent. Unfortunately, due to a non avoidable clash of a COM200 course’s day long workshop organised on the Techkriti weekend on Saturday and Sunday for the second-year students, the festival took a hit. The circumstances in Techkriti Oh Seven were unfavourable in the interest of the institute to reschedule and avert the clash. However, it had to be deal with as prudently as feasible. But it should leave us with a lesson that in the future, care should be taken by the organising team to avoid such clashes as soon as they are evident.

Because the festival relies heavily on the website, it is suggested that the website is ready in summers itself. This year we have reworked the Event Management System of the Techkriti website so that it can accommodate any template. The same was not available earlier on. The event management system is a student project initiated with Techkriti 2005. It should be kept as an ever evolving project so that year after year all its loopholes are gradually cleaned up. This can be used very effectively to manage the festival.

6. PHYSICAL ACTIVITIES (CPA)

With the objective of a sound physical health and an all round development of personality of students, several co-curricular and extracurricular physical activities have been integrated as Compulsory Physical Activities (CPA) with the regular curriculum at IIT Kanpur. The streams of activities are:
1. Games and Sports
2. National Cadet Corps (NCC)
3. National Service Scheme (NSS)
4. Yoga
5. Tae-Kwando

All the 1st year students admitted in the B. Tech. /M. Sc. (Integrated) programme are required to exercise their option for one of the above activities at the time of registration under the course PE. The two courses PE 101 and PE 102 constitute Compulsory Physical Activities (CPA) at IIT Kanpur.

Compulsory Physical Activitis (CPA) Programme is a Senate approved programme for 4 year B.Tech, 5-Year Integrated M.Sc., 5-year B.Tech-M.Tech. Dual Degree students. This is a two-semester programme run under the Course Number PE-101 & PE-102. In both the courses there are two components, namely,

1. Physical Exercise One Hour per week
2. Personality Development Activities Two Hours per week

The Dean of Students’ Affairs is the instructor in-charge of these courses. The courses are graded as S (Satisfactory)/X (Unsatisfactory). The grade will be given after the End semester examination. A minimum of 75% attendance and satisfactory performance in each of the two components will be necessary for passing the courses.

All Students undergo total three hours activities per week. The students have to opt for one of the Personality Development Activities (I) Games & Sports (II) Yoga (III) Tae-kwon-Do (IV) NSS (V) NCC. The students opting Games & Sports and selected in Trials for Games & Sports will undergo three ours of games per week. The remaining students will under go Physical Exercises once a week for an hour out of three hours per week. Remaining two hours will be for one of the personality development activities namely (I) Yoga (II) Tae-kwon-Do (III) NSS (V) NCC. Minimum attendance requirement must be fulfilled for both the parts (chosen stream and or Physical: Physical exercise not being mandatory for those choosing Games & Sports as their Streams).
PE-101, FIRST SEMESTER FROM AUGUST 07 TO NOVEMBER 23, 2006

1. Physical Exercise: Participation will be one in a week for students opted other than Games Stream. This would run during August-November in the morning. Jogging, Long Distance Run, Lightweight training, games and Athletics would be undertaken for at-least twelve weeks.

2. Personality Development Activities: Participation will be thrice/twice a week (for Games & Sports thrice a week, for other personality development activities twice a week). Selection trials will be held from August 7 to August 11, 2006 to fill up the seats for different streams.

Students are required to fill up option forms for the streams, which will be collected on the day of REGISTRATION.

Number of seats available under different streams are as follows. These numbers can be changed, if circumstances so require.

(a) NSS (Coordinator: Dr. H.C. Verma) Total Seats=30
Participation in NSS activities twice a week (Each session of an hour during) for at-least 24 hours in each semester. Seats will be filled on the basis of first come first serve the day of Registration.

(b) YOGA (Coordinator: Dr. K.K. Saxena) Total Seats=30
Participation in YOGa Exercise twice a (Each session of an hours during) for at-least 24 hours in each semester. Seats will be filled through test/interviews. The coordinator, Yoga, will conduct these test/interviews on the next day of the registration in the Yoga hall, Students Activities Center at 06:00 P.M.

(c) TAE-KWON-DO (Coordinator: Dr. Satyendra Kumar) Total Seats=50
Participation in Tae-Kwon-Do activities twice a week (Each session of an hours during) for at-least 24 hours in each semester. Seats will be filled on the basis of first come first serve the day on the day of Registration.

(d) NCC (Coordinator: Commanding Officer, NCC) Total Seats=No limit
Participation in NCC Parades for at-least 24 hours in each semester. For NCC no trial will be held. Any student can take NCC excepting Foreign Nationals. There is no limit on number of seats.
(e) Games & Sports (Coordinator: Vishram Yadav)  Total Seats=196 (154 Boys+42 Girls)

Participation in Games & Sports thrice a week (Each session of an hours during) for at-least 36 hours in each semester. Seats will be filled up through selection Trials. The instructors, games will conduct these selections Trials as program mentioned below.

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Games &amp; Sports</th>
<th>Boys</th>
<th>Girls</th>
<th>Trial Time</th>
<th>Trial Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Athletics</td>
<td>20</td>
<td>10</td>
<td>07-11, August 06</td>
<td>Main Stadium</td>
</tr>
<tr>
<td>2</td>
<td>Badminton</td>
<td>06</td>
<td>04</td>
<td>07-11, August 06</td>
<td>Indoor Gymnasium</td>
</tr>
<tr>
<td>3</td>
<td>Basketball</td>
<td>18</td>
<td>12</td>
<td>07-11, August 06</td>
<td>Basketball Court</td>
</tr>
<tr>
<td>4</td>
<td>Cricket</td>
<td>18</td>
<td>00</td>
<td>07-11, August 06</td>
<td>Main Stadium</td>
</tr>
<tr>
<td>5</td>
<td>Football</td>
<td>22</td>
<td>00</td>
<td>07-11, August 06</td>
<td>Football Ground</td>
</tr>
<tr>
<td>6</td>
<td>Hockey</td>
<td>22</td>
<td>00</td>
<td>07-11, August 06</td>
<td>Hockey Ground</td>
</tr>
<tr>
<td>7</td>
<td>Table-Tennis</td>
<td>06</td>
<td>04</td>
<td>07-11, August 06</td>
<td>Indoor Gymnasium</td>
</tr>
<tr>
<td>8</td>
<td>Tennis</td>
<td>06</td>
<td>03</td>
<td>07-11, August 06</td>
<td>Tennis Court</td>
</tr>
<tr>
<td>9</td>
<td>Volleyball</td>
<td>16</td>
<td>00</td>
<td>07-11, August 06</td>
<td>Volleyball Court</td>
</tr>
<tr>
<td>10</td>
<td>Wt. Lifting</td>
<td>08</td>
<td>00</td>
<td>07-11, August 06</td>
<td>Indoor Gymnasium</td>
</tr>
<tr>
<td>11</td>
<td>Swimming</td>
<td>15</td>
<td>06</td>
<td>07-11, August 06</td>
<td>Swimming Pool</td>
</tr>
</tbody>
</table>

ATTENDANCE:

PE-102, Second Semester from January-April 2007

This course will run similarly during January-April in the morning Students will be allowed to join PE-102 only after clearing PE-101.

7. SWIMMING POOL

Institute has a full size (50x20 meters) Swimming Pool for its students, faculty and staff and also for their family members. The membership is open to all on payment of a nominal fee. Arrangements have been made to coach beginners in swimming. To ensure maximum safety of the members, life-guards are engaged. The exact rates for these sessions are fixed and notified by the Swimming Pool Management Committee, for regular memberships as well as guest charges. The Pool has been operating for 7 months in a year, i.e. from
April to October on monthly basis. Pool is operating in the morning as well as evening hours i.e. 5:30 am to 8:15 am and 3:30 pm to 8:00 pm divided into 45 minutes slots with 15 minutes free time in between. Swimmers and non-swimmers are separated.

8. COUNSELLING SERVICE

The Institute Counselling Service, which has an appointed Head, Assistant Counsellors and staff is a volunteering organization made up of students and faculty members who offer help and guidance to students on the academic, emotional and financial fronts. During the session April 2006 - March 2007, the Counselling Service had one PG Coordinator, two UG Coordinators, assisted by 4 PG Assistant Coordinators and 5 UG Assistant Coordinators and a team of nearly 19 PG Student Guides, 25 PG Orientation Team Members and 73 UG Student Guides.

Like every year, the activities of the Counselling Service started in April with the Handing-Over Ceremony. The new team took charge after the ceremony on April 5, 2006 where the old team was presented mementos by the Director.

During the summers, the preparations for welcoming the new batch of students began. A well planned brochure including letters from the Head, Counselling Service; Student Coordinators; President, Students’ Gymkhana; etc informing them about the practical details of life at IIT Kanpur and other useful information like the various student activities, academic calendar, the map of the Institute, bus schedule, etc were sent to all the new students before their arrival on the campus. A workshop was organized for the student guides to sensitize them to the problems that the new students might face. A group of 7-8 new students was associated with a student guide and a faculty counsellor who facilitated their smooth settlement in the initial stages.

An Orientation Programme for the new PG students was organized from 24th to 28th July 2006 and for the UG students was organized from 3rd to 6th August 2006. During both the Orientation Programmes, the new students were welcomed to the Institute by the Director, Deputy Director and Head, Counselling and assisted in opening new bank accounts and were guided through all the official processes of making Smart Cards, Health Booklets, CC logins and the final registration. This is the first time the Smart Cards were given to the new students. The Counselling Service also organized a bank presentation where the new students got to know about the various educational loan schemes of the different participating banks. Presentations by the Dean, Academic Affairs, Dean, Students Affairs and Head, Computer Center were also made. The new students were shown around the campus and informed about the various facilities available to them. Apart from this, a meeting of the first-year UG students with a few final year students was also organized in the hostels, so that the new students could gain from the experience and guidance of the final year students.
A Link Structure for the undergraduate students was formed after the commencement of the academic session in August to take care of academically deficient students. The team consisted of 23 Link Students, 13 Senior Link Students and 24 link faculty members. A total of 2 meetings (one in each semester) of the entire link team were held to discuss the issues related to these students. Regular meetings of the link students with the core team members were organized to monitor the academic performance of the students. During the session 2006-07-I, 91 students were on Academic Probation list and 90 students on Warning. Around 95 students came out of the list after this semester. A total of 95 students were on AP and 80 on Warning during the 2006-07-II session. A small decrease in the number of academically deficient students was noted.

On the basis of the undergraduate students’ performance up to the first mid semester examination, this year too, several students were recommended the slow paced programme. Meetings were held with these students to suggest semester wise course plans according to their departments. A significant number of students registered for the slow paced programme.

To assist the students having problems in English conversation and comprehension, the Counselling Service organized conversation classes at nominal rates. Over 60 students in the 2006-2007 first semester and over 30 students in 2006-2007 second semester registered for the English conversation and comprehension classes.

A workshop on technical writing and presentation skills was organized in April 2006. More than 250 students participated in it. The Counselling Service also assisted in the conduct of the workshop on “Helping Gifted Minds: Challenges and Opportunities” in October, 2006.

Like every year, Counselling Service organized the appointed of a professional psychiatrist who visited the campus on alternate Saturdays to resolve various psychological problems of the students. A total of 43 students consulted the psychiatrist. In addition to this, psychiatric help was also available outside the campus in cases of emergency through the Counselling Service.

On the financial front, students were provided assistance through SBF scholarships. Around 57 students could avail this facility. Loans were provided to students facing acute financial problems. The SBF scholarship amount was also increased from Rs.600 per month to Rs.800 per month, for the financial year 2007-2008.

The Counselling Automation System (CAS), which was devised last year with the help of Office Automation, was further improved. However, the utility of the CAS was found not to be effective. It was perceived that with time and modification the CAS will provide a good feedback to the Counselling Service with respect to students facing problems.
An Orientation program was also conducted in December, 2006 for the new post graduate students joining the Institute for the 2006-2007 second semester. As in the previous Orientation, students were assisted in opening new bank accounts and were guided through all the official processes of making Smart Cards, Health Booklets, CC logins and the final registration. During this Orientation program the students were also required to undertake a Health check-up, which was coordinated with the Institute Health Centre.

In February-March, the new coordinators both for the UG and PG students were selected and interviews were held for selecting the new assistant coordinators and student guides for the next session. In April, the new team will take charge.

10. FACULTY IN-CHARGES STUDENTS' AFFAIRS

<table>
<thead>
<tr>
<th>Role</th>
<th>Name</th>
<th>Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dean, Students Affairs</td>
<td>Dr. Prawal Sinha</td>
<td>From 29-08-2005</td>
</tr>
<tr>
<td>Head, Counselling Service</td>
<td>Dr. Onkar Dixit</td>
<td>Upto 04-05-2006</td>
</tr>
<tr>
<td></td>
<td>Dr. Goutam Deo</td>
<td>From 05-05-2006</td>
</tr>
<tr>
<td>Chairman, Council of Wardens</td>
<td>Dr. F.A. Khan</td>
<td>From 01.02.2006</td>
</tr>
<tr>
<td>Vice-Chairman, Council of Wardens</td>
<td>Dr. A.K. Chaturvedi</td>
<td>From 01.02.2006</td>
</tr>
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</table>

Counsellors, Students’Gymkhana

<table>
<thead>
<tr>
<th>Role</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chief Counsellor</td>
<td>Dr. Prawal Sinha</td>
</tr>
<tr>
<td>Cultural Counsellor</td>
<td>Dr. (Mrs) Suchitra Mathur</td>
</tr>
<tr>
<td>Games Counsellor</td>
<td>Dr. P Shunmugaraj</td>
</tr>
<tr>
<td>Films Counsellor</td>
<td>Dr. Partha Chakraborty</td>
</tr>
<tr>
<td>Science &amp; Technology Counsellor</td>
<td>Dr. Rajat Moona</td>
</tr>
<tr>
<td>Treasurer</td>
<td>Dr. N.K. Sharma</td>
</tr>
<tr>
<td>Chairman Students Benefit Fund</td>
<td>Dr. Goutam Deo</td>
</tr>
<tr>
<td>Chairman Students' Placement</td>
<td>Dr. Vinod Tare/Dr. Rajiv Sinha</td>
</tr>
<tr>
<td>Committee</td>
<td></td>
</tr>
<tr>
<td>Faculty Advisor, NSS</td>
<td>Dr. H. C. Verma</td>
</tr>
</tbody>
</table>
Chairman, Swimming Pool Management Committee | Dr. Ashish Garg
---|---
Faculty Advisor, Yoga | Dr. K.K. Saxena
Faculty Advisor, Tae-kwon-do | Dr. Satyendra Kumar

11. WARDENS

**HALL OF RESIDENCE No. I**
Dr. R.K. Sullerey, Warden-in-Charge
Dr. R Gurunath, Warden
Dr. V.N. Kulkarni, Warden

**HALL OF RESIDENCE No. II**
Dr. Alok Dutta, Warden-in-Charge (upto 21.12.06)
Dr. Avinash Agarwal (From 22.12.2006), Warden
Dr. Ashish Garg, Warden
Dr. Jayant K Singh, Warden

**HALL OF RESIDENCE No. III**
Dr. P.S. Ghoshdastidar, Warden-in-Charge
Dr. Bikramjit Basu, Warden
Dr. Amman Madan, Warden, (upto 24.1.07)
Dr. Abhijit Kusheri (from 25.1.07)

**HALL OF RESIDENCE No. IV**
Dr. Partha Chkraboty, Warden-in-Charge
Dr. Sanjay Kumar Singh, Warden
Dr. Anish Upadhyay, Warden

**HALL OF RESIDENCE No. V**
Dr. Ajai Jain, Warden-in-Charge
Dr. S.N. Tripathi, Warden
Dr. P.M. Prasad, Warden

**HALL OF RESIDENCE No. VI**
Dr. C.A. Tomy, Warden-in-Charge
Dr. Y.N. Singh, Warden
Dr. Suchitra Mathur

**HALL OF RESIDENCE No. VII**
Dr. N.K. Sharma, Warden-in-Charge
Dr. Sameer Khandekar, Warden
Dr. Amit Mitra, Warden

**HALL OF RESIDENCE No. VIII**
Dr. S.N. Singh, Warden-in-Charge
Dr. Pranab Mohaparta, Warden
Dr. Venkitanarayan P

**HALL OF RESIDENCE No. IX**
Dr. Sudhir Kamle, Warden-in-charge
Dr. A.K. Saha, Warden

**HALL OF RESIDENCE- GH**
Dr. Brahma Deo, Warden-in-Charge
Dr. Shikha Dixit, Warden
Dr. Asima Pradhan, Warden

**SBRA**
Dr. Goutam Deo, Warden-in-Charge
Mr. Brijesh Pandey, Convener

**12. STUDENTS' GYMKHANA EXECUTIVE**

The philosophy followed at this Institute is to involve students at various decision-making levels. The President, Students' Gymkhana and the Convener, Students' Senate are special invitees to the Senate. Students' Senate also sends its nominees for various standing committees of the senate namely EPC, SPGC, SUGC, SSAC, SLC,
SSPC and various other users committees. The following list gives the names of students holding various posts of the executive wing of students' Gymkhana.

**President**

Mr. Anirudh Halalka (upto Feb. 2007) Mr. Arvind Kothari (From March 2007)

**Convenor, Students Senate**

Mr. Tony Jacob (Upto Feb. 2007) Mr. Chirag Mittal (From March 2007)

**General Secretary (Cultural)**

Mr. Nishant Singh (Upto Feb. 2007) Mr. Sumeet Kale (From March 2007)

**General Secretary (Games)**

Mr. Sandeep Shinde (Upto Feb. 2007) Mr. Rohit Kumar Bishnoi (From March 2007)

**General Secretary (Films)**

Mr. Atul Kumar Ramuka (Upto Feb. 2007) Mr. Vaibhav Singhal (From March 2007)

**General Secretary (Science & Technology)**

Mr. Saumya Jain Feb. 2007) Mr. K. Ashwin (From March 2007)
STUDENTS’ PLACEMENT

The Students’ Placement Office moved into the new premises in the “Outreach Building” in January 2006 and continues to play a vital role in assisting the students in their career planning and placement. Several counseling sessions and workshops were held to help students prepare for the final interviews.

In this academic year, the Pre-Placement Talks were held during the 7th semester and the final placements were scheduled after the end semester exams. Multiple companies interviewed every day. The PPT’s started from 24th August and 58 companies gave their presentations. The final Placements began from 5th December and continued till April end for the undergraduate students. The process is still on for the post graduate students.

Invitation letters for participating in the Campus Recruitment Programme 2006-07 were sent to over 500 Organizations. A total of 130 companies visited the campus and recruited 672 students out of the 730 students who had registered with the SPO (see Table 1). The placement statistics for our B.Tech students crossed 96% mark this year while the same for the M.Tech. students is about 89% till date. The MBA and Dual Degree Programme have had 100% placement. The overall placement for 2006-07 has been 92%. With the objective of providing uniform opportunity to all students registered for placement, the policy of “one job per student” still continues. The average salary this year for the overall batch is Rs.6.00 lakhs per annum.
The Student’s Placement Office put in place an automation procedure for placement this year which included the registration process by the students, application to different companies as well as communicating all student data to the companies. A software package developed by Eatbits (a company founded by IITK alumni) was used for this purpose. Further, the internship process has also been automated using a software package developed by a few of our own students which is currently being upgraded to include additional features.

This year’s recruitment saw a rise in companies in the consulting, financial and civil engineering sectors visiting the campus. Several companies have offered overseas posting. Amongst the new organizations that visited this year are Lehman Brothers Japan, Deustche Bank, Deloitte Consulting, Ernst & Young, Halliburton, Rio Tinto Australia, HSBC, Credit Suisse, Kotak Mahindra Bank Ltd., ICICI Prudential Life Insurance, DLF Ltd., Jones Lang LeSalle, GMR Projects, IDEB Projects Ltd., and Engineers India Ltd.

Table 1: PLACEMENT DATA FOR THE YEAR 2006-07

<table>
<thead>
<tr>
<th>B.Tech</th>
<th>Total registered</th>
<th>IT</th>
<th>Core</th>
<th>Analytics</th>
<th>Finance</th>
<th>Consultancy</th>
<th>Total placed</th>
<th>Percent placement</th>
</tr>
</thead>
<tbody>
<tr>
<td>AE</td>
<td>20</td>
<td>6</td>
<td>5</td>
<td>3</td>
<td>1</td>
<td>4</td>
<td>19</td>
<td>95</td>
</tr>
<tr>
<td>CE</td>
<td>43</td>
<td>4</td>
<td>20</td>
<td>9</td>
<td>0</td>
<td>9</td>
<td>42</td>
<td>98</td>
</tr>
<tr>
<td>CHE</td>
<td>35</td>
<td>5</td>
<td>13</td>
<td>7</td>
<td>5</td>
<td>5</td>
<td>35</td>
<td>100</td>
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<tr>
<td>CSE</td>
<td>33</td>
<td>7</td>
<td>13</td>
<td>0</td>
<td>10</td>
<td>3</td>
<td>33</td>
<td>100</td>
</tr>
<tr>
<td>EE</td>
<td>58</td>
<td>5</td>
<td>27</td>
<td>8</td>
<td>11</td>
<td>5</td>
<td>56</td>
<td>97</td>
</tr>
<tr>
<td>ME</td>
<td>47</td>
<td>4</td>
<td>18</td>
<td>11</td>
<td>6</td>
<td>4</td>
<td>43</td>
<td>91</td>
</tr>
<tr>
<td>MME</td>
<td>46</td>
<td>10</td>
<td>14</td>
<td>7</td>
<td>8</td>
<td>5</td>
<td>44</td>
<td>96</td>
</tr>
<tr>
<td>Sub-total</td>
<td>282</td>
<td>41</td>
<td>110</td>
<td>45</td>
<td>41</td>
<td>35</td>
<td>272</td>
<td>96</td>
</tr>
<tr>
<td>Dual</td>
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<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
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<td>1</td>
<td>1</td>
<td>0</td>
<td>5</td>
<td>100</td>
</tr>
<tr>
<td>CHE</td>
<td>5</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>0</td>
<td>5</td>
<td>100</td>
</tr>
<tr>
<td>CSE</td>
<td>13</td>
<td>0</td>
<td>11</td>
<td>0</td>
<td>2</td>
<td>0</td>
<td>13</td>
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<td>ME</td>
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<td>11</td>
<td>1</td>
<td>1</td>
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<td>14</td>
<td>100</td>
</tr>
<tr>
<td>Sub-total</td>
<td>48</td>
<td>3</td>
<td>32</td>
<td>5</td>
<td>7</td>
<td>1</td>
<td>48</td>
<td>100</td>
</tr>
<tr>
<td>M.Tech</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>AE</td>
<td>17</td>
<td>5</td>
<td>10</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>16</td>
<td>94</td>
</tr>
</tbody>
</table>

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The Students’ Placement Office also coordinated the Summer Internship Programme for the pre-final year students of all the engineering departments. Internships were offered to 95 students through SPO. It is planned to coordinate the summer internship programme in a more organized manner from next year through a centralised system. The SPO thanks all functionaries of the institute and units which helped in the placement process during the academic year 2006-07.
Services / Amenities

INSTITUTE WORKS DEPARTMENT

Institute Works Department (IWD) is primarily responsible for the maintenance of capital assets for providing the following utility services to the resident community:

Civil, Electrical and Air-conditioning maintenance services
Water supply and sewage disposal
Power Distribution
Estate Management
Sanitation and upkeep
Horticulture Development & Maintenance
Furniture repairs
Roads

In addition to above, IWD also executes development projects from concept to commissioning. It comprises of the following units for facilitating operation & maintenance of services and construction activity:

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Unit</th>
<th>Responsibility</th>
<th>Unit-in-charge</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Civil Division-I</td>
<td>Maintenance, up-gradation and development works.</td>
<td>Executive Engineer</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Water supply, furniture, roads.</td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>Civil Division-II</td>
<td>Maintenance &amp; development Works</td>
<td>Executive Engineer</td>
</tr>
</tbody>
</table>
During the financial year 2006-07, IWD has undertaken the following major development works:

### CIVIL WORKS:

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Name of work</th>
<th>Value of work (Rs. in Lacs)</th>
<th>Date of Start</th>
<th>Date of completion</th>
<th>Work Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Construction of Centre for Environmental Sciences and Engineering Building</td>
<td>437.39</td>
<td>05.05.06</td>
<td>04.06.07</td>
<td>In progress</td>
</tr>
<tr>
<td>2</td>
<td>Construction of Hall of Residences for Boys No.-IX (Ph.-II)</td>
<td>157.53</td>
<td>01.09.06</td>
<td>31.05.07</td>
<td>In progress</td>
</tr>
<tr>
<td>3</td>
<td>Construction of Centre for Environmental Sciences and Engineering Building</td>
<td>70.10</td>
<td>20.01.07</td>
<td>19.05.07</td>
<td>In progress</td>
</tr>
<tr>
<td></td>
<td>Description</td>
<td>Cost</td>
<td>Start Date</td>
<td>End Date</td>
<td>Status</td>
</tr>
<tr>
<td>---</td>
<td>------------------------------------------------------------------------------</td>
<td>-------</td>
<td>------------</td>
<td>----------</td>
<td>----------</td>
</tr>
<tr>
<td>4</td>
<td>Construction of Hall of Residences for Boys No.-IX (Ph.-III)</td>
<td>432.35</td>
<td>01.01.07</td>
<td>31.12.07</td>
<td>In progress</td>
</tr>
<tr>
<td>5</td>
<td>Construction of New Lecture Hall Complex (Ph.-II).</td>
<td>133.62</td>
<td>28.01.06</td>
<td>15.05.07</td>
<td>In progress</td>
</tr>
<tr>
<td>6</td>
<td>P/F CC paverson the road footpath SAC crossing to Academic Gate No. I both side) SAC crossing to Park 67 (one side) &amp; Park 67 to Main Gate (one side)</td>
<td>10.60</td>
<td>30.09.06</td>
<td>29.12.06</td>
<td>Complete</td>
</tr>
<tr>
<td>7</td>
<td>Drilling of one deep tubewell at IIT Kanpur</td>
<td>13.76</td>
<td>14.10.06</td>
<td>13.12.06</td>
<td>Complete</td>
</tr>
<tr>
<td>8</td>
<td>Making of diversion of road with new security post and raising of road level near railway crossing at main entrance of IIT Kanpur</td>
<td>14.90</td>
<td>18.05.06</td>
<td>17.07.06</td>
<td>Complete</td>
</tr>
<tr>
<td>9</td>
<td>Carrying out minor maintenance civil work in Hall of Residences</td>
<td>15.06</td>
<td>06.07.06</td>
<td>05.07.07</td>
<td>Complete</td>
</tr>
<tr>
<td>10</td>
<td>Minor maintenance civil work in Academic Area</td>
<td>25.36</td>
<td>21.08.06</td>
<td>20.08.07</td>
<td>Complete</td>
</tr>
<tr>
<td></td>
<td>Project Description</td>
<td>Cost (Rs.)</td>
<td>Start Date</td>
<td>End Date</td>
<td>Status</td>
</tr>
<tr>
<td>---</td>
<td>-------------------------------------------------------------------------------------</td>
<td>------------</td>
<td>------------</td>
<td>------------</td>
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</tr>
<tr>
<td>11</td>
<td>Providing CC road from Pradhan Gate Nankari to Hall of Residence No. VIII</td>
<td>25.43</td>
<td>28.08.06</td>
<td>27.12.06</td>
<td>Complete</td>
</tr>
<tr>
<td>12</td>
<td>Minor maintenance civil work in South side of main drive</td>
<td>26.47</td>
<td>27.08.06</td>
<td>26.08.07</td>
<td>Complete</td>
</tr>
<tr>
<td>13</td>
<td>Minor maintenance civil work in North side of main drive</td>
<td>27.91</td>
<td>21.08.06</td>
<td>20.08.07</td>
<td>In progress</td>
</tr>
<tr>
<td>14</td>
<td>P/F wire mesh window shutter and modification of cup board and internal white washing / painting of Hall-IV (block E, F, G, H &amp; common area)</td>
<td>28.69</td>
<td>22.07.06</td>
<td>21.12.06</td>
<td>Complete</td>
</tr>
<tr>
<td>15</td>
<td>Resurfacing of Runway, Apron and Taxiway of Airstrip at IIT Kanpur</td>
<td>53.54</td>
<td>12.05.06</td>
<td>11.07.06</td>
<td>Complete</td>
</tr>
<tr>
<td>16</td>
<td>Construction of JEE / GATE office building at IIT Kanpur</td>
<td>261.66</td>
<td>01.01.07</td>
<td>31.12.07</td>
<td>In progress</td>
</tr>
<tr>
<td>17</td>
<td>Construction of lab space for unmanned helicopter vehicles and other research activities</td>
<td>278.57</td>
<td>01.01.07</td>
<td>30.10.07</td>
<td>In progress</td>
</tr>
</tbody>
</table>
### B. ELECTRICAL :

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
<th>Cost (in Rs)</th>
<th>Start Date</th>
<th>End Date</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Alumni &amp; Student Career Center</td>
<td>26.67</td>
<td>24.10.05</td>
<td>15.11.06</td>
<td>Completed</td>
</tr>
<tr>
<td>2</td>
<td>Providing &amp; laying HDPE pipe for single mode fiber cable for networking in Acad. Bldg &amp; hostel.</td>
<td>24.60</td>
<td>17.12.05</td>
<td>16.08.06</td>
<td>Complete</td>
</tr>
<tr>
<td>3</td>
<td>Construction of 4 Nos. block of hall of residence No.-IX</td>
<td>77.23</td>
<td>10.12.05</td>
<td>8.12.06</td>
<td>Complete</td>
</tr>
<tr>
<td>4</td>
<td>Construction of lecture hall complex.</td>
<td>16.56</td>
<td>5.05.06</td>
<td>30.03.07</td>
<td>In progress</td>
</tr>
<tr>
<td>5</td>
<td>Supply &amp; laying of 100 pair jelly fill telephone cable for hall-II, III, V &amp; newly const hall-IX.</td>
<td>15.72</td>
<td>20.06.06</td>
<td>19.10.06</td>
<td>Complete</td>
</tr>
<tr>
<td>6</td>
<td>Construction of Nanoscience lab</td>
<td>12.74</td>
<td>16.06.06</td>
<td>15.03.07</td>
<td>In progress</td>
</tr>
<tr>
<td>7</td>
<td>Providing external power</td>
<td>21.52</td>
<td>12.07.06</td>
<td>25.08.06</td>
<td>Complete</td>
</tr>
<tr>
<td>No.</td>
<td>Project Description</td>
<td>Budget</td>
<td>Start Date</td>
<td>End Date</td>
<td>Status</td>
</tr>
<tr>
<td>-----</td>
<td>-------------------------------------------------------------------------------------</td>
<td>--------</td>
<td>------------</td>
<td>-----------</td>
<td>--------------</td>
</tr>
<tr>
<td>8</td>
<td>Construction of Hall of Residence No.-IX (Ph.-II)</td>
<td>26.40</td>
<td>17.09.06</td>
<td>16.06.07</td>
<td>In progress</td>
</tr>
<tr>
<td>9</td>
<td>Construction of a facility for environmental Sc. &amp; Engg Bldg.</td>
<td>83.97</td>
<td>4.10.06</td>
<td>3.08.07</td>
<td>In progress</td>
</tr>
<tr>
<td>10</td>
<td>Construction of Pseudo Dynamic Test Facility Engg Lab.</td>
<td>19.41</td>
<td>24.01.07</td>
<td>23.11.07</td>
<td>Complete</td>
</tr>
<tr>
<td>11</td>
<td>Providing external power supply &amp; tel cable for nanosc. Bldg.</td>
<td>26.66</td>
<td>11.02.07</td>
<td>10.05.07</td>
<td>Complete</td>
</tr>
<tr>
<td>12</td>
<td>Providing external power supply for AC plant &amp; main switchroom panel, telephone cable &amp; laying HDPE pipe for networking in Environmental Sc Bldg.</td>
<td>23.02</td>
<td>14.02.07</td>
<td>13.06.07</td>
<td>In progress</td>
</tr>
<tr>
<td>13</td>
<td>Construction of 4 Nos. block of hall of residence No.-IX (Ph.-III )</td>
<td>69.57</td>
<td>17.03.07</td>
<td>16.03.08</td>
<td>In progress</td>
</tr>
<tr>
<td>14</td>
<td>Construction of helicopter lab</td>
<td>45.14</td>
<td>26.03.07</td>
<td>25.10.07</td>
<td>In progress</td>
</tr>
<tr>
<td>15</td>
<td>Construction of JEE/GATE office bldg</td>
<td>54.04</td>
<td>26.03.07</td>
<td>25.02.08</td>
<td>In progress</td>
</tr>
<tr>
<td>16</td>
<td>Supply &amp; installation of 1 No. Passenger lift I/c dismantling of old lifts in ACES Bldg.</td>
<td>11.00</td>
<td>22.03.07</td>
<td>21.09.07</td>
<td>In progress</td>
</tr>
</tbody>
</table>

### C- AIR-CONDITIONING

| 1  | Alumni & Student Career Centre | 26.13 | 17.11.05 | 28.11.06 | Complete |
| 2  | Construction of lecture hall complex | 24.22 | 8.06.07 | 7.03.07 | In progress |
| 3  | Construction of a facility for environmental Sc. & Engg Bldg. | 57.93 | 22.09.07 | 21.07.07 | In progress |
| 4  | Providing external chilled water pipe line for new lecture hall complex (Ph.-II) | 10.62 | 4.10.06 | 28.02.07 | Complete |
| 5  | Construction of Nanoscience laboratories | 30.99 | 29.09.06 | 28.03.07 | Complete |
Following new major projects have been taken up in the current year:
1. Construction of new Core Labs.

Following new major projects are under planning:
2. Construction of building for Design Program.

**STORES & PURCHASE SECTION**

The Store and Purchase Section is an Important service unit to cater to the needs of departments/units for purpose of various equipment, chemicals, glassware, hardware, consumables, stationery etc. and all medicines/pharmaceutical products, Industrial gases etc. for research and general purpose. The procurements are from both indigenous and foreign source.

The Section handles customs clearance of all foreign consignments and matters relating to Import Licenses/Duty Exemption Certificates and other certificates from Government of India. The re-export of consignments to the suppliers for repairs/replacements is also done through this section.

During the financial year 2006-2007 the Purchase Section places 1648 orders valued Rs.59,13,22,451=01 which includes import order numbering 397 costing Rs.41,68,61,114=69 The purchase orders and their values under various categories are as follows.

<table>
<thead>
<tr>
<th>Sr. No</th>
<th>Category</th>
<th>No. of P.O.</th>
<th>Amount (in Rs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>(I)</td>
<td>Import :</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(A)</td>
<td>Institute fund</td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>Consumable</td>
<td>36</td>
<td>15,55,294=70</td>
</tr>
<tr>
<td>b</td>
<td>Non consumable</td>
<td>60</td>
<td>6,56,05,615=43</td>
</tr>
<tr>
<td>(B)</td>
<td>Project fund</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Central stores procures highly technical items as and when required by the different departments to maintain the pace with science and technology development. It stocks some items of consumable in nature like stationary, hardware, and liveries etc. The Central store has two units, namely Purchase unit and Receipt/Issue Unit. This section is headed by a professionally competent Assistant Registrar (Materials) and he is also assisted by a professionally competent team of 19 personnel.

The store also handles disposal of unusable and scrap materials. Clearance of parcels and dispatch of rejected materials to both local and foreign firms for repairs/replacement is also done by this section. It assists the department in areas like transportation, procurements of furniture etc.

Stores Accounts maintain the expenditure details under working expenses and stationery grants sanctioned to Department/Section etc.

We have been successful in computerizing the transactions both in Stores, Purchase & Import Section. We are processing all Indents through the software developed by Automation Division and each & every function of Store & Purchase has been automated in this financial year. We can generate reports as our requirements as and when needed. We have full connectivity in Central Store through LAN/WAN for complete automation. Maximum correspondence is done by e-mail where it is available keeping in view the speedy action for the procurement. Store and Purchase is now connected with main frame Computer of Computer Center. Full communication with every net user is now possible in campus from Store and Purchase Section. We are also planning to provide the web based postal, so that department can send electronic indent directly to Central Store and check the status of this indent/sanction sheet on the monitor.
ESTATE OFFICE

The Institute has a sprawling area of 960 acres having total population around ten thousand. Being a residential campus with 1034 houses in various categories far away from the heart of the city, the Institute had to create its own infrastructure and civic amenities such as sanitation, water supply, sewage disposal and shopping complexes and such facilities, which are required for day-to-day living.

The Estate Office is entrusted with various kinds of activities including house allotment, commercial shops management, tendering process of unserviceable materials, eviction of unauthorized occupants, realization of license fee/electric charges from shopkeepers & house allotee’s, estate management and civic amenities.

The Institute has various types of residential accommodation, i.e. Type- IA, IB, I, II, III, IV and V out of which type III & above are allotted to Faculty members, Scientists, Research Engineers, group A officers and rest are allotted to other staff. We have mainly four shopping complexes at various locations i.e. one in the heart of campus called as main shopping complex and other at Type-II complex, third one at security crossing & fourth one at Type-I area consisting of various kinds of 98 shops, which fulfill the basic needs of the residents.

Besides the above shopping complexes, we have 9 hostels for students’ accommodation out of which seven are for boys and two are for girls. Every hostel has a barbershop, washer man shop, tailoring shop which mainly fulfills the immediate needs of the students. As per demand, we have already started the operation of the PCOs in most of the hostels.

A new state-of-art building of Biological Sciences and Bio-Engineering department has been completed and is in operation with approximately 64,000 sq. feet area. Also the construction of twelve residences for visiting faculty completed and is used for providing accommodation.

Looking from the hygienic point of view in the campus, the Estate Office has been coordinating and monitoring the cleaning, sweeping & up-keeping work of the campus, which has been appreciated by the campus community. Private contractors under supervision of the office attend the above job.

Further a cable T.V. Network is also being operated round the clock by the Institute to provide entertainment to the entire campus community.

Besides, the Estate Office is managing all types of activities related to the estate successfully and cautiously by way of taking all the precautions to solve all types of problems. During the financial year 2006-07, the office has realized about Rs. 82,88,966.00 from the different sources.
CAMPUS SCHOOL

Since its inception in the year 1964, the Campus School imparts the best possible elementary education to the wards of its faculty, employees & some wards of the community helpers serving on the campus such as post office, bank, police out post etc. Its infra structure is very strong. It follows CBSE pattern of education with an emphasis on moral education, computer & personality development.

Physical Panorama

1. School Strength:
   (a) Students on roll = 372
   (b) Teachers = 24 and the Principal
   (c) Supporting staff = 15

2. Infra-structure: The school is well equipped with:
   (a) Open shelf library. (b) Computer room.
   (c) Music room & Dance room. (d) Art room (e) Science room
   (f) P.T. room for indoor games and a big playground for Basketball, Kho-kho, Cricket, Foot ball, Swings etc.

3. P.T.A. Meeting:
   (a) During this session Open P.T.A. meetings were held on Sept.23, 2006 and 24.2.2007.
   (b) Two parent representatives - Dr. Sanjeev Saxena and Mr. Shitla Prasad Tripathi were unanimously elected in the last meeting as members of the School Management Committee.

As a community school, suggestions and observations of the parents/well wishers, if considered healthy for betterment of the educational environment, is always welcome. Safety & security, parental care of the students, democratic setup, self-discipline and transparency in activities make it different from other educational institutions.

4. Activities:
   Students are always given wide range of exposure necessary for all round development of personality.
(I) Different festivals & functions such as Janamashtami, Gandhi Jayanti, Eid, X-mas, etc were organised in the morning assembly to acquaint the kids with the socio cultural heritage of our country.

Different activities & competitions are arranged and organised throughout the session.

(II) School competitions viz: Fancy dress, Poetry Recitation, Hand writing, Essay Writing, Debate competition, Art competition and Maggie Quiz Competition etc.

(III) Inter-school competition: During Wild Life Week Celebrations organised by Zoological Garden Authorities of Kanpur, our kids did well and brought many laurels to the School.

a. Sac Race - II  
b. Frog race - I

Sub Junior - I

c. Debate - I  d. Quiz Junior - II

Sub Junior - I Sub junior - I

e. Group Dance  f. Group Song -- Junior - II (upto VIII) Junior - II (upto VIII)

Sub junior - I

g. Mono acting  ---- h. Casio – III Junior

(IV) Class IV & V students visited Water Park under guidance of Mr. Vikas Victor, PTI, Mrs. P. Srivastava and Mrs. N. Agnihotri. Students of grd. I to V visited Nursery, P.O; Bank e.t.c.

(V) Students participated in All India camel Contest and Navneet Colouring contest and bagged 12 and 40 prizes respectively.

Following mega events were celebrated:

1. Independence Day: Aug. 15, 2006. Main programmes were held in the Institute Stadium.


3. Annual Sports Meet: Dec. 16, 2006 Chief Guest: Prof. Prawal Sinha, Dean of Students Affairs, IIT/K

4. Teacher’s Day: Sept. 05, 2006

Chief Guest: Prof. Joseph John, Chairman, SMC

5. Annual Concert: March 01, 2007
Chief Guest: Prof. Kripa Shanker, Dy. Director, IIT / K

As ever, the said events were celebrated with great zeal & enthusiasm and were appreciated and applauded by all.

7. An educational tour of Lucknow for our teachers was arranged and organised on Feb. 03, 2007. The Institute administration was kind enough to approve & encourage the tour.

SPECIAL EVENTS

1. Number of evening co-curricular activities is increased and the response is quite encouraging one. Energy & vitality of the kids are channelised in proper and positive direction under supervision of four qualified teachers in the area of Inter-active English, Games & sports and Dance & Music. About 70 students registered their participation in these activities so far.

2. Following staff members retired from their services:
   1. Mrs. S. Narang, Teacher (S.G.) by virtue of superannuation
   2. Mr. Phirtoo Ram, attendant, (S.G.) by virtue of superannuation.

   I put on record their sincere, valuable and exemplary services rendered to the school. We wish them very happy, prosperous & peaceful long life.

3. Two of our colleagues Mr. Ram Lakhan & Mr. Ram Swaroop, Teachers, SG were honoured by the Director for their long and satisfactory services to the Institute on the eve of Republic Day. Congrats!

5. We welcome Mrs. Ruchira Dutta, a new teacher in the fold of our school family who has developed a rapport with the kids. We are confident that her experience, devotion & dedication in the profession would help in upholding the school educational environment.
HEALTH CENTRE

Health Centre had been established with the objective of addressing health needs of the Institute Community. Health Centre provides services round the clock to meet out this objective. Health Centre is manned by 9 Medical Officers and a Medical Advisor of the Institute. Apart from Medical Officers, it is equipped with a Pathology & Biochemistry lab, X-Ray Unit, Dressing Unit, Pharmacy and Nursing Station.

The details of the Health Centre services provided for the period with effect from 01.04.2006 to 31.03.2007 are as follows:

<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Particulars</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Number of patients treated in OPD</td>
<td>59233</td>
</tr>
<tr>
<td>2.</td>
<td>Number of students treated</td>
<td>11554</td>
</tr>
<tr>
<td>3.</td>
<td>Number of patients treated in Indoor</td>
<td>966</td>
</tr>
<tr>
<td>4.</td>
<td>Number of patients treated in Homeopathy</td>
<td>3786</td>
</tr>
<tr>
<td>5.</td>
<td>Number of Surgical Operations (Minor)</td>
<td>35</td>
</tr>
<tr>
<td></td>
<td>Number of Tubectomy</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Number of D&amp;C</td>
<td>3</td>
</tr>
<tr>
<td>6.</td>
<td>Number of Deliveries</td>
<td>4</td>
</tr>
<tr>
<td>7.</td>
<td>Number of Plastering</td>
<td>95</td>
</tr>
<tr>
<td>8.</td>
<td>Number of Surgical Dressing</td>
<td>6212</td>
</tr>
<tr>
<td>9.</td>
<td>Number of Injections</td>
<td>96000</td>
</tr>
<tr>
<td></td>
<td>Number of Tetvac</td>
<td>630</td>
</tr>
<tr>
<td></td>
<td>No. of cut T-350</td>
<td>22</td>
</tr>
<tr>
<td>10.</td>
<td>Number of Hematology and Biochemistry Tests</td>
<td>38756</td>
</tr>
<tr>
<td>11.</td>
<td>Number of Family Planning Operations (Tubectomy)</td>
<td>1</td>
</tr>
<tr>
<td>12.</td>
<td>Number of E.C.G.</td>
<td>535</td>
</tr>
<tr>
<td>13.</td>
<td>Number of Babies attended in Well baby Clinic</td>
<td>870</td>
</tr>
<tr>
<td>14.</td>
<td>Number of X-Ray done</td>
<td>2528</td>
</tr>
</tbody>
</table>
15. Number of babies attended – National Pulse Polio Programme 592
16. Number of Anti Rabies Injections 280

The data for well baby clinic is as follows:

<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Particulars</th>
<th>Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>No. of Triple Antigen</td>
<td>528</td>
</tr>
<tr>
<td>2.</td>
<td>No. of Polio</td>
<td>697</td>
</tr>
<tr>
<td>3.</td>
<td>No. of measles</td>
<td>128</td>
</tr>
<tr>
<td>4.</td>
<td>No. of Heptatis B</td>
<td>154</td>
</tr>
</tbody>
</table>

Immunization are done round the year in the Health Centre for protection against Typhoid, Cholera, Tuberculosis, Diphtheria, Pertussis Tetanus, Polio and Measles. Facilities for maternity management, Family Planning Counseling and Tubectomy operations are also available.

**VISITORS’ HOSTEL**

Housed in an imposing double storeyed building and located at a central place, Visitors’ Hostel provides boarding and lodging facilities for the Institute guests and Visitors, newly appointed faculty, staff members, delegates and participants attending various conferences, seminars, symposia and workshops. The Visitors’ Hostel has some extension and allied facilities on the campus and in Chittaranjan Park Colony New Delhi also for the benefit of the Institute Visitors. The Visitors’ Hostel and the allied facilities are operated as a non-profit activity to mainly support the academic and research activity on the campus with a homely atmosphere and ambience traditionally acclaimed for its environs of hygiene and food of homely relish and richness. The following are the various activities undertaken by the team managing the affairs of the Visitors’ hostel and the allied facilities.

The Visitors’ Hostel management team is also overseeing the upkeep and services at Visiting Faculty Apartment, VH service Apartment at Chittaranjan park Colony, New Delhi and Outreach 60 & 80 building.

**Accommodation:** Visitors’ Hostel has been equipped with 70 Standard rooms of which 40 are AC and 30 are Non-AC. Further there are 15 Deluxe rooms of which 10
are AC and 5 are Non-AC. It can accommodate a maximum of 170 guests at a time on twin sharing basis. All the rooms have attached bathrooms with modern amenities.

Recently four type V houses of 18 room capacity have been added to accommodate the guests during peak demand for accommodation on the campus.

**Dining Facility:** Visitors’ Hostel has 2 air-conditioned dining halls with capacity of 30 and 70 guests. One of the dining halls has a sitting room attached with it.

**Conferencing Facilities:** VH has one Meeting Lounge (capacity 16). A Pioneer Batch Continuing Education Center Building is also attached with Visitors’ Hostel. It has:

- one conference room (capacity 20)
- one meeting room (capacity 12)
- two classrooms (capacity 64 and 36 respectively) and
- a waiting lounge (capacity 35).
- a small pantry.

**Additional Facilities:**

- All the rooms, PBCEC, Dining Halls and Meeting Lounge have been provided with computer network connectivity. All the Deluxe AC rooms have a PC also.
- Wi-fi connectivity has been provided in New Dining Hall, PBCEC and the Meeting Lounge.
- All the rooms have cable connections. Currently 10 deluxe rooms and 40 standard AC rooms have been equipped with Color TV facility.
- All the deluxe AC rooms have a small pantry and a small refrigerator.

**Renovation Work:**

- 30 Standard rooms have been renovated and the toilets have been provided with all the modern fittings and fixtures.
- Acoustic treatment has been done in all the conference and meeting rooms of PBCEC.

Certain new facilities are on the anvil for ensuring more comfortable stay of the visitors such as renovation and air-conditioning of rest of the rooms, provision of colour TVs, acceptance of credit cards, user-friendly web-page development etc.

An increase in facilities and services and a more professional approach has led to increased occupancy rate, thus achieving more financial viability in terms of operational expenditure.
Publications and Outreach Activities

BOOKS AND BOOK-CHAPTERS PUBLISHED


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11. Video on Basic Surveying, NPTEL-MHRD, 2007, Lohani, B.


27. Imaging buoyancy-driven convective field around a KDP crystal using schlieren tomography, with Atul Srivastava and P.K. Panigrahi (pp. 133-147); Determination of the concentration field around a growing crystal using laser shadowgraphic tomography (pp. 158-175), with Sunil Verma and V.K. Wadhawan, in Computerized Tomography for Scientists and Engineers, edited by P. Munshi, Anamaya Publishers, New Delhi, 2006.


42. Interpolating Gauge,s Parameter Differentiability , WT-Identities and the Term, Current Topic in Quantum Field Theory Research , Nova Science Publisher-2007 S. D. Joglekar
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11. One Semester Course in Wind Energy for Advanced Undergraduate and Graduate Engineering Students, IGEC-2, The Second International Green
44. Recent advances in the molecular basis of Laforas progressive myoclonus epilepsy. J. Human Genetics 51, 1-8, 2006, Ganesh S, Puri R, Singh S, Mittal S, and Dubey D.
49. Supermacroporous cryogel matrix for integrated protein isolation: IMAC purification of urokinase from cell culture broth of a human kidney cell line. J.

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118. Valve positioning control for process through-put maximization, Chemical Engineering Research and Design, Accepted, March 2007, S. K. Jha and N. Kaistha.


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170. 3D visualization of LiDAR data, GIM International, 21(2), 15-17, 2007, Ghosh, S., and Lohani, B.


206. Experiences in using WiFi for Rural Internet in India, IEEE Communications Magazine, Jan 2007, Special Issue on New Directions in Networking Technologies in Emerging Economies, Bhaskaran Raman and Kameswari Chebrolu.
207. RAM Simulation of BGS Model of Abstract-state Machines, Fundamenta Informaticae, 77 (1-2), 2007, pp 175-185, Comandur Seshadhri, Anil Seth and Somenath Biswas


210. OR-Neuron Based Hopfield Neural Network for Solving Economic Load Dispatch Problem, Neural Information Processing - Letters and Reviews, (Accepted for Publication), 2006, Mishra, D., Amit Shukla, and P.K. Kalra


218. Color Image Compression Using 2-Dimesional Principal Component Analysis (2DPCA), The 9th Asian Symposium on Information Display (ASID), October 8 to 12, New Delhi, India, 2006, Ashutosh Dwivedi, Arvind Tolambiya , Prabhanjan Kandula ,N. Subhash Chandra Bose, Ashiwani Kumar and P. K. Kalra


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381. An efficient FDTD algorithm for computation of resonance frequency of an inhomogenous cylindrical structure, AsiaPasific Microwave Conference2006, 


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459. Effect of surface treatment on electrochemical behavior of CP Ti, Ti-6Al-4V and 
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460. Electrochemical Impedance Spectroscopy and Cyclic Voltammetry Study of 
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461. Archaeometallurgy of Ancient Indian Copper, R. Balasubramaniam, 
462. Surface Film Nature on Titanium-Aluminium-Iron Alloys in Simulated Human 
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463. Development of Novel Brasses to Resist Dezincification, R. Karpagavalli and R. 
464. Corrosion Inhibition of Aluminum Alloy 2014 by Rare Earth Chlorides, Ajit 
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471. Sujoy Pandit Patil and Dipak Mazumdar, Prediction of Strand Superheat in 
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472. Dipak Mazumdar and J.W. Evans, Modeling of Slag Eye Formation Over a Metal 
Bath Due to Gas Injection, Materials and Metallurgical Transactions, June (2007), 
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CONFERENCE PAPERS


33. Manpower needs of Oil & Gas Industries - Role of Educational Institutions, P.C. Ray Memorial Lecture, 22nd National Seminar, Institution of Engineers (I) Delhi chapter, New Delhi, September 2006. Published in the proceedings, J.P. Gupta.

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78. Multi-Agent Tracking under Complex Occlusions Pacific Rim, Conference on AI (PRICAI 2006), Guilin China, August 2006, Prithwijit Guha and Amitabha Mukerjee and K.S. Venkatesh.


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103. A Knowledge and Data Based Hybrid Approach to Gene Clustering, Proceedings 5th International Conference on Bioinformatics of Genome Regulation and Structure (BGRS2006), Novosibirsk, Russia, July 16-22, 2006, AbhisheK K., Harish Karnick, Pabitra Mitra.


111. Behavioural Approximations for Restricted Linear Differential Hybrid Automata, in 9th International Workshop on Hybrid Systems: Computation


117. Fusion of Iris and Fingerprint Biometric For Recognition, Proceedings of International Conference on Signal and Image Processing (ICSIP), Karnataka, India, December 2006, Hunny Mehrotra, Ajita Rattani and Phalgungi Gupta.


135. Faster Algorithms for Approximate Distance Oracles and All-Pairs Small Stretch Paths, Proceedings of 47th IEEE Symposium on Foundations of


144. Managing Agri-Knowledge Diffusion in Rural India, 5th Conference of the Asian Federation for Information Technology in Agriculture, AOS Section, Bangalore, India, November 2006, Singh M.D., Chatterjee J., and Prabhakar, T.V.


164. Policy Approaches to Induce Corporate Social Responsibility in Public and Private Sector Firms in Developing Countries, International Corporate Responsibility 2006, Hong Kong, September 22-24, Sarkar, R.


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<td>Managing Agri-Knowledge Diffusion in Rural India. 5th Conference of the Asian Federation for Information Technology in Agriculture, AOS Section, Bangalore, India, November 2006</td>
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<td>177</td>
<td>A study of two different variants of adaptive sampling procedures and some interesting applications in management science, International Conference on Operations and Quantitative Management (ICOQM-VII), Jaipur, India, 3rd – 5th August 2006</td>
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| 179 | Use of Artificial Immune System (AIS) in financial valuation and measurement of financial risk for credit rating, (co-author Rohit Singh) | 39th Annual Convention of Operational Research Society of India (ORSI-2006


185. Strategy & Structure in the Knowledge Enterprise, Symposium on Competitiveness in the Knowledge Economy, IMI, Delhi, 3-4 November, 2006, Arun P Sinha.


216. PIV investigation of flow behind surface mounted detached square cylinder, 14th International conference on nuclear engineering (ICONE14) and 2006 ASME Joint U.S.-European Fluids Engineering Summer Meeting (FEDSM2006), Miami, Florida, July 17-20 2006, Panigrahi P. K.


Glass transition temperature of high molecular weight polystyrene: effect of particle size, bulk to micron to nano, NSTI Nanotech 2006, NSTI Nanotechnology Conference and Trade Show, Boston, MA, United States, May 7-11, 2006, 1 483-486. Pradip Paik and Kamal K. Kar.


Nano Particles Coated Carbon Fibers for Structural Applications: Preparation and Characterizations, ISAMPE National Conference on Composites INCCOM-5, Advanced Systems Laboratory, Kanchanbagh, Hyderabad,


249. Combustion Characteristics of Rice Bran Oil Derived Biodiesel in a Transportation Diesel Engine, ASME-Internal Combustion Engines Division,


Molecular Nonlinearities with low power femtosecond lasers, Amit Nag and Debabrata Goswami, 2nd Discussion meeting on Spectroscopy and Dynamics


276. Microwave driven plasma ion sources for focused ion beam applications, Proceedings of DAE-BRNS, Indian Particle Accelerator Conference-2006, pp.223-224, Bhabha Atomic Research Center and Tata Institute of Fundamental Research, Mumbai, India, November 1-4, 2006, Jose V. Mathew, Abhishek Chowdhury, Sudeep Bhattacharjee.

277. Effect of magnetic field gradient on power absorption in compact microwave plasma sources, Proceedings of DAE-BRNS, Indian Particle Accelerator Conference-2006, pp. 231-232, Bhabha Atomic Research Center and Tata Institute of Fundamental Research, Mumbai, India, November 1-4 206, Indranuj Dey, Md. Shamim, Sudeep Bhattacharjee.


281. Focused Ion Beam Studies using a microwave driven plasma source, International Workshop on the physics of mesoscopic and disordered


301. Dependence of image quality of state of polarization in polydisperse turbid media Photonics 2006, Prashant Shukla, Yashasvi Purwar, Asima Pradhan.


308. Negative refractive index of metamaterials at optical frequencies., Proc. MRS fall Meeting 2006, Symposium R (27th to 30th Nov. 2006, Boston) S. A. Ramakrishna, and S.Chakrabarti


313. A Laser heated pedestal growth of crystalline LiNbO3 crystal directly from the congruent mixture of Li2CO3 and Nb2O5, Sasmita Kumari Patro, Satyendra Singh Thakur, Pradeep Kumar, Bansi Lal and Joseph John, Proceedings of Sixth DAE-BRNS National Laser Symposium (NLS-6), p82-83, December 5-8, 2006 (Raja Ramanna Center for Advanced Technology, Indore, India).
314. Laser heated pedestal growth of the organic optical material 3-methoxy 4-hydroxy benzaldehyde, Shivani Singh and Bansi Lal, Proceedings of Sixth DAE-BRNS National Laser Symposium (NLS-6), p80-81, December 5-8, 2006 (Raja Ramanna Center for Advanced Technology, Indore, India).


316. Laser Heated Pedestal Growth of Organic Photonic Materials, Pradeep Kumar, Shivani Singh and Bansi Lal, Proceedings International Conference on Lasers and Nanomaterials, PL-10, November 30-December 2, 2006 (Department of Physics, University of Calcutta, Kolkata, India)

**CONFERENCES ATTENDED OUTSIDE IIT KANPUR**


2. 30th Indian Social Science Congress, December 26-31, 2006, Alagappa Chittier Research Center, Karaikudi, TN; Chairman : of a Session; Presented: a paper, K. Ghosh.


7. 7th World Congress on Computational Mechanics, WCCM06, Hyatt Regency Century Plaza Hotel, Los Angeles, California, July 16-22, (2006), Sanjay Mittal.

8. Indo-German Winter Academy, Digha December 10-13 (2006), Sanjay Mittal.


11. 14th International Conference on Finite Elements in Flow Problems Santa Fe, New Mexico USA March 26-28 (2007), Sanjay Mittal.


22. Engineers’ Day Symposium, Institution of Engineers (India) Qatar Chapter, Doha, Qatar, Sept. 15, 2006. Delivered an invited talk on ‘Role of Engineers in Natural Disaster Mitigation and Management’, J.P. Gupta.


27. CAMURE-6 and ISMR-5 at NCL, Pune, 14th -17th Jan, 2007, Ashok Khanna.


31. Invited to the Center of Excellence in Nanoelectronics, IIT Bombay, for exploring collaborative work, March 5, 2007, S. Panda.

32. IIT-K Reach symposium 2007, Poster presented, V. Shankar.


38. Self-organized patterning of soft solids, National Workshop on Nanomaterials and Nanotechnology, University of Lucknow (Materials Research Society of India), Lucknow, March 2007, A. Sharma.

39. Self-organized materials and interfaces, Recent Developments in Nanomaterials, Banaras Hindu University, March 2007, A. Sharma.
42. Attended 86th Annual Meeting of the Transportation Research Board, Washington D.C., USA. Presented a paper at the conference.
43. Attended 2nd National Frontiers of Engineering Symposium, New Delhi. Chaired the session on Transport, Chakraborty, P.
44. Combined Regional Workshop of WWTM and IHWTM in ARRPET, Shahid Raya Hotel, Bali, Indonesia, June 5-6, 2006, Chaired Session, S. Guha.
48. Attended 14th International Conference on Composite Engineering, Boulder, Colorado, USA, July 2-8, 2006, Kumar Ashwini. [Invited paper]
49. Attended 2nd International Congress on Computational Mechanics and Simulation, IIT Guwahati, India, 8-10 December, 2006, Kumar Ashwini. [Keynote speaker, Session chairman]
52. Attended ISPRS Commission VI symposium, 27-30 June 2007, Tokyo, Presented a research paper, Lohani B.
53. CATCON software competition, 27-30 June 2007, Tokyo, Participated in software competition with Limulator, Lohani, B.
54. Joint Asia Oceania Geosciences Society (AOGS) 3rd meeting 10-14 July 2006, Suntec Singapore International Convention & Exhibition Centre, Singapore, Malik, J.N.
55. 100th Anniversary 1906 San Francisco Earthquake conference at San Francisco, April 18-22, 2006, Malik, J.N.
56. Attended 100th Anniversary Earthquake Conference Commemorating the 1906 San Francisco Earthquake during 18-22, 2006 at San Francisco, USA
contributing paper entitled Implications of the 2004 Great Sumatra Earthquake and Tsunami for Risk Reduction in India, Jain S. K.

57. Attended First European Conference on Earthquake Engineering and Seismology during September 3-8, 2006 in Geneva, Switzerland, Jain S. K.

58. Attend meeting Board of Directors of International Association for Earthquake Engineering, Jain S. K.

59. Attend Editorial Board Meeting of the journal Earthquake Engineering and Structural Dynamics’ Wiley., Jain S. K.

60. World Seismic Safety Initiative (WSSI) during 3-4 December in Singapore for attending Annual meeting of the Board of Directors, Jain S. K.

61. International Disaster Management Symposium :: Culture of Prevention, 18 January 2007, Kobe, JAPAN, Murty, C.V.R.


63. 13th World Conference on Earthquake Engineering, 1-6 August 2006, Vancouver, CANADA, Murty, C.V.R.

64. 3rd Indo-German Workshop and Theme Meeting on Seismic Safety of Structures, Risk Assessment and Disaster Mitigation, 12-13 March 2007, BARC, Bombay, Murty, C.V.R.


66. Engineers’s Day Celebration, 14 September 2006, Institution of Engineers (India), Indore Chapter, Murty, C.V.R.


68. International Conference on ‘Deltas: Depositional systems and stratigraphic development, Brunei Darussalam, January 13-18, 2006 (Invited lecture), Sinha R.

69. Fluvial conference on IGCP518 and IAG Working Group on Large Rivers. Shanghai and Nanjing, 9-16, October, 2006 (Invited lecture), Sinha R.


73. Formal Methods Update 2006, IIT Guwahati, July 2006, delivered two talks on Quantitative and Stochastic Games, Anil Seth.
74. ICTP-ITU-URSI School on Wireless Networking for Scientific Applications in Developing Countries, February 20-21, 2007, ICTP, Trieste, Italy, Bhaskaran Raman.
78. 25th Annual Conference on Computer Communications (IEEE INFOCOM), Barcelona, Spain, April 2006, Bhaskaran Raman.
82. NASSCOM Annual HR Summit, July 2006, Chennai, Dheeraj Sanghi.
83. 8th International Symposium on Systems and Information Security (SSI 2006), November 2006, Sao Paulo, Brazil, Dheeraj Sanghi.
84. 12th Asia Pacific Software Engineering Conference, December 2006, Bangalore, Dheeraj Sanghi.
87. 23rd International Biometric Conference, Montreal, Canada, 2006, Phalguni Gupta.


Conference on use of Grids in Health care, August 2006, Delhi, Sanjeev Kumar Aggarwal.


Intel Developers Forum, October 2006, Bangalore, Sanjeev Kumar Aggarwal.

Intel Asia Academic Forum, November 2006, Malaysia, Sanjeev Kumar Aggarwal.

Asia Pacific Software Engineering Conference, December 2006, Bangalore, Sanjeev Kumar Aggarwal.

TRDDC Silver Jubilee Research Workshop, December 2006, Pune, Sanjeev Kumar Aggarwal.


Microsoft Annual Research Seminar Techvista, January 2007, Bangalore, Sanjeev Kumar Aggarwal.


European Symposium on Algorithms (ESA), September 11-15, Zurich, Switzerland, paper presentation, Sumit Ganguli.


Sixth Working IEEE/IFIP Conference on Software Architecture, WICSA 2007, Mumbai, Jan 2007, a key note address on A Knowledge Management Perspective of Software Architecture, Prabhakar T.V.
112. 9th Asian Symposium on Information Display (ASID), New Delhi, India, 11th October 2006, Paper presentation, P. K. Kalra.
121. IEEE Power India Conference Delhi, April 10-12, 2006, S.N. Singh (Session Chairman)
122. International Conference on Energy, Efficiency and Environment, UPTU Lucknow, June 10-11, 2006, S.N. Singh (Organizing committee member, Technical Committee Chairman, Session Chairman)
123. IEEE Power Engineering Society, General Meeting, Montreal, Canada, June 18-22, 2006, S.N. Singh (Panelist, paper presenter)
124. National Seminar on Voltage Stability (SVC’06), Arulmigu Kalasalingam College of Engineering, Tamil Nadu, October 13-14, 2006, S.N. Singh. (Keynote Speaker)
125. Workshop on Laboratory Teaching in Electrical Engineering (LTEE-06), KNIT Sultanpur, India, November 24-26, 2006, S.N. Singh (Guest of Honor, Valedictory session).
126. AICTE Sponsored National Conference on Advances in Electrical Engineering, MITS Gwalior, Indian, November 29-30, 2006, S.N. Singh (Keynote Speaker, Inaugural Session)


129. IEEE Int. Symposium on Intelligent Control (ISIC), Munich, Germany, 2006, presenting contributed paper, L. Behera.


135. 2006 IEEE Information Theory Workshop held at Chengdu, China, R. K. Bansal.


140. 12th National Conference on Communications, NCC 2006 at IIT Delhi, A. Banerjee.

141. IEEE Wireless Communications and Networking Conference (WCNC), Hong Kong, March 2007, A. Banerjee.


146. WINS, Goa, April 2006. Invited participant, K. Chebrolu.
147. The 9th Asian Symposium on Information Display at New Delhi from 8th to 12th October, 2006. Was member of program committee; Chaired two tutorial sessions (by Prof. Harm Tolner and Prof. Y.N. Mohapatra); Made a poster presentation.
154. IAEE International Conference, (7-10 June, 2006), Potsdam/Berlin, Germany, Anoop Singh.
156. INFRATRAIN Autumn School Trends in Infrastructure Modeling and Policy to be organized by TU Berlin’s WIP from 2 - 7 October 2006, Anoop Singh.


164. Open Knowledge Space, OPAALS, Workshop, Tampere University of Technology, Finland, October 2006, J. Chatterjee.

165. Language, Semantics and SBVR Workshop, OPAALS, University of Kassel, Germany, March 2007, J. Chatterjee.


169. Ubiquitous Middleman Syndrome; Trust is the key: National seminar on the 'Confluence of technology with handicrafts', 31st March 2007, Design Programme, IIT Kanpur, B. V. Phani.


177. Brainstorming on UK India Collaboration to identify the barriers to the transfer of low Carbon energy technologies TERI New Delhi 13 Sept 2006, Ashok K Mittal.


180. The 7th Asia Pacific Industrial Engineering and Management Systems Conference, Bangkok, 17-20 December 2006, Session Chair, Kripa Shanker.
181. Workshop on Immediate Energy Saving via Microwave Usage in Major Materials Technologies organized by National Academy of Engineering and Penn State University, University Park, USA (June 8-10, 2006) and presented an invited lecture on Microwave Sintering of W-Ni-Fe Alloys, A. Upadhyaya.


183. Effect of Powder Characteristics and Processing Parameters on the Shrinkage behaviour of Copper Compacts, Powder Metallurgy World Congress (PM2006), 24-28 September, 2006, Busan, South Korea, B. Padminavathi and A. Upadhyaya.


187. Papers from Dr. Upadhyaya’s group were presented in the 60th Annual Technical Meeting of the IIM, Jamshedpur, 15-16 November, 2006.


191. Phase Evolution and Sinter-Bonding Mechanism of Ternary Boride (Fe,Mo,Cr,B) based Cermets Sintered at Various Temperatures, 60th Annual Technical Meeting of the IIM, Jamshedpur, 15-16 November, 2006, Jain, B. Palanisamy, and A. Upadhyaya.


held in Noida between 9-11 February 2007, S. Balaji, G. Joshi, and A. Upadhyaya.


231. Sintering, microstructure development and cell adhesion properties of bulk HAp-Ti and HAp-mullite bioceramic composites at the workshop on ‘Biomaterials and Biomedical Devices’ held at Central Glass and Ceramic Research Institute (CGCRI), Calcutta, India in December 12-13, 2006, Bikramjit Basu.

233. Spark Plasma Sintered WC-ZrO$_2$ Nanocomposites: Microstructure and Mechanical Properties during 31st International Cocoa Beach Conference & Exposition on Advanced Ceramics & Composites, which will be held in Daytona Beach, Florida on January 21-26, 2007, Bikramjit Basu.

234. Synthesis, Phase Stability, Microstructure, Mechanical and In-Vitro Properties of HAp-Mullite Novel Composites for Biomedical Applications during 31st International Cocoa Beach Conference & Exposition on Advanced Ceramics & Composites, which will be held in Daytona Beach, Florida on January 21-26, 2007, Bikramjit Basu.

235. Hydroxyapatite-Alumina-High Density Polyethylene Composites for Biomedical Applications: Processing and Characterization during 31st International Cocoa Beach Conference & Exposition on Advanced Ceramics & Composites, which will be held in Daytona Beach, Florida on January 21-26, 2007, Bikramjit Basu.


237. Correlation between Dihedral Angles at Triple Junctions and Grain Boundary Misorientation Angles in Polycrystals, National Conference on Electron Microscopy and XXXVIII Annual Meeting of Electron Microscope Society of India (EMSI), April 19-21, 2006 (awarded as the best student presentation in Materials Sciences), V. Rajinikanth, Veeranjaneyulu Daggubati and Sandeep Sangal


244. Optical Society of America annual meeting held at Rochester New York in October 2006, K. Muralidhar.


253. Micro miniaturization – A Recent Trend, Guest lecture at Annamalai University, October 2006. J. Ramkumar.


259. Numerical Methods for Fluid Dynamics (ICFD 07), 9th International Conference, the University of Reading, U.K., 26-29th March, Contributed Paper. S. Sarkar

260. Session Chair and Organizer for SAE World Congress 2007, PFL-20: CI Engine Performance for Use with Alternative Fuels Session, to be held in Detroit, USA April 2007, A.K. Agarwal.


268. First Mid-Year Meeting of the CRSI held at IIT Madras July 12 and 13, 2006 and presented a poster on Synthesis and Characterization of NHC-Stabilized Zinc aryloxide and Zinc Hydroxyaryloxide, G. Anantharaman and K. Elango.
269. First Mid-Year Meeting of the CRSI held at IIT Madras Feb 12 and 13, 2007 and presented a poster on Synthesis and Characterization of NHC-Stabilized Zinc aryloxide and Zinc Hydroxyaryloxide, K. Elango and G. Anantharaman.

270. 37th International Conference on Coordination Chemistry (37th ICCC) at Cape Town on August 2006. Oral Presentation on the topic Modulation of the Ru-Ru Single Bond by Axial Donors in Diruthenium Paddlewheel Complexes, J. K. Bera.

271. Indo-Japan Joint Workshop on New Frontiers of Molecular Spectroscopy, held in Kobe, Japan, September 24-26, 2006, A. Chandra.


281. IITK REACH Symposium, Parwanoo, Himachal Pradesh, March, V. Chandrasekhar.


290. Indian Science Congress, Annamalai University, Chidambaram, Jan. 3-7, 2007, Coordinator & Special Invited Lecture on the theme ‘Nanotechnology’, N. S. Gajbhiye.
293. 2nd Discussion meeting on Spectroscopy and Dynamics of Molecules & Clusters, The International Centre, Dona Paula, Goa, India, Mar.30-Apr.1 (2006), D. Goswami.
299. CRSI: Delhi University, B. D. Gupta.

304. The 3rd Asian Biological Inorganic Chemistry Conference (AsBIC-III), Nanjing, China (October 31 - November 3, 2006), R. N. Mukherjee.


307. On the Aspect of Modeling Molybdoenzymes, Chemistry Department, University of Ulm, 7th July, 2006 Germany, S. Sarkar.

308. The enzyme behind the fishy smell and more, Chemistry Department, University of Kiel, 12th July, 2006 Germany, S. Sarkar.

309. The wet side of carbon nanotube, Chemistry Department, University of Bremen, 14th July, 2006 Germany, S. Sarkar.


311. Carbon nanotube and its diverse use, Biotechnology Department, Heritage Institute of Technology, Kolkata, 9th November, 2006, S. Sarkar.


316. Modeling Copper Trafficking Proteins and New Perspective on Oxidative Stress, presented in the International conference on oxidative stress and aging, Kuwait University, 18-21 March, 2007, S. Sarkar.

320. IUPAC Discussion Meeting on Hydrogen Bond, Department of Inorganic and Physical Chemistry, Indian Institute of Science, Bangalore, Sep. 18, 2006, N. Sathyamurthy.
322. 7th Asian International Seminar on Atomic and Molecular Physics, Indian Institute of Technology Madras, Chennai, December 4-7, 2006, N. Sathyamurthy.
324. Indian National Science Congress, Annamalai University, Annamalainagar, Jan. 5-7, 2007, N. Sathyamurthy.
331. Delivered a lecture at MS University Baroda, in a National Seminar on Chemistry Research on October 16, 17 2006, Y.D. Vankar.
332. Delivered a lecture at Syngenta Research & Technology Centre inauguration meeting on December 1, 2006 at Santa Monica Site, Goa, Y.D. Vankar.
334. Annual conference of Bharat Ganita Parisad, Lucknow : Invited talk, “Role of operator spaces in Harmonic Analysis” , also chaired a session, Tewari, U.B.
contributed paper: ‘Consistent estimation of regression coefficients in measurement error model under exact linear restrictions’ Shalabh.

337. Fourth International Workshop on Total Least Squares and Errors-in-Variables Modeling held at Katholieke University, Leuven, Belgium in 2006, contributed paper - On the estimation of linear ultra structural model when error variances are known, Shalabh.

338. Third Autumn Symposium of the Research Training Group “Statistical Modelling” held at University of Dortmund, Germany in November 2006, contributed paper - Parametric estimation in measurement error models, Shalabh.


340. Recent advances in optimization, theory and applications, Department of Mathematics, University of Delhi, 27-28, Sharma, P.

341. ICM 2006 at Madrid, Spain, Madan,S.


344. SIAM Conference on Analysis of Partial Differential Equations, July 10-12, 2006 at Boston, Massachusetts, Contributed paper, Ritesh, K.


346. International Conference on Bioinformatics and Computational Biology (BIOCOMP’ 06) held at LAS VEGAS, NV, USA during June 26-30, 2006, contributed paper, Prawal Sinha


348. ICAPM-2006, May28 - Jun4, Marrakech, Morrocco, contributed paper, B.V. Rathish Kumar

349. 2nd IMT-GT Regional Conference on Mathematics, Statistics and Applications, Universiti Sains Malaysia, Penang, Malaysia (June 2006), contributed paper, Bhupendra Gupta


353. International Conference organized by International Indian Statistical Association (IISA) at the Cochin University of Science and Technology, Cochin, 2007, Contributed Paper - Mitra, A., Prasad, A., Kundu, D.

354. Annual conference of Indian Mathematical Society held at Rani Durgavati University, Jabalpur, December 26-29, 2006 – Invited Talk, Santhanam, G.


356. IITK REACH Symposium held at Kalka, India during March 7-10, 2007, Poster presentation, Anurag Prasad


358. ESMRMB 23rd Scientific meeting, Warsaw, Poland, 21-23 September 2006, Contributed Paper - Purwar, A

359. 38th International Conference on Combinatorics, Graph Theory and Computing held in Florida Atlantic University, March 5 – 9, 2007, Contributed Paper - On the existence of constrained labeling for locally finite graphs, B. Bhattacharyya.

360. International Conference on Bioinformatics and Computational Biology (BIOCOMP’ 06) held at LAS VEGAS, NV, USA during June 26-30, 2006 contributed paper - Mucus Transport in the lung due to cough: Turbulent flow models with viscoelastic effects, Prawal Sinha


362. International Indian Statistical Association Conference, held at Cochin University of Science and Technology, Jan 02-05, 2007, invited talk : On Hybrid Censored Weibull Distribution, D. Kundu

363. Oral and Poster Presentation: Crossover in pinning regimes of the vortex solid and the peak effect at the 11th International workshop on Vortex Matter at Wroclaw, Poland, July 3rd – 8th, 2006. (Satyajit Banerjee)

364. Chaired a session: At the 11th International workshop on Vortex Matter at Wroclaw, Poland, July 3rd -8th, 2006. (Satyajit Banerjee)

365. Poster presentation: Pinning regimes in the vortex solid and the crossover between them in single crystals of 2H-NbSe2 at the 8th International Conference
on Materials and Mechanisms of Superconductivity and High Temperature Superconductors, Dresden, July 9th-14th, 2006. (Satyajit Banerjee)

-invited talk: Instabilities in Superconductors, National conference on Emerging trends in engineering materials, Thapar Institute of Engineering and Technology, Patiala, Punjab, Feb 1-3, 2007 (Satyajit Banerjee)

-Chaired a session: At the National conference on Emerging trends in engineering materials, Thapar Institute of Engineering and Technology, Patiala, Punjab, Feb 1-3, 2007. (Satyajit Banerjee)

-invited oral presentation: Theme Meeting on High Current Ion sources (HCIS 06), Variable Energy Cyclotron Center, Department of Atomic Energy, Kolkata, April 06-07, 2006 (Sudeep Bhattacharjee)

-invited oral presentation: Plasma Science Society of India-Institute for Plasma Research (PSSI-IPR) workshop on National Fusion Programme: ITER and Beyond, Institute for Plasma Research, Gandhinagar, November 08-10, 2006. (Sudeep Bhattacharjee)

-contributed papers: Indian Particle Accelerator Conference-2006, Bhabha Atomic Research Center and Tata Institute of Fundamental Research, Mumbai, November 1-4, 2006 (Sudeep Bhattacharjee)


-invited talk at the National Workshop “Modeling infectious Diseases: from cell to society” Institute of Mathematical Sciences, Chennai, September 4-6, 2006. (D Chowdhury)

-invited talk at the International workshop “Frontiers of Nanobiotechnology” Allahabad University, December 1, 2006. (D Chowdhury)

-statphys-Kolkata VI (International Conference on Statistical Physics), Radisson Resort, Raichak, West Bengal, India, Invited Speaker. (Amit Dutta)

-materials and mechanism of superconductivity-M2S-HTSC-VIII, July 09 to July 14, 2006 Dresden, Germany (Poster presentation) (Z. Hossain)

-8th Prague Colloquium of F-electron systems, Prague, Czech Republic, 8-11 September, 2006 (Oral presentation). (Z. Hossain)

-DAE particle physics symposium at IIT Kharagpur, December 11-15, 2006. (Pankaj Jain)


-first Mexican Encounter on Space-time Microstructure, Patzcuaro, Mexico, November 06-10, 2006, Invited Talk, Regularizations of Field Theory, non-local Regularization (S. D. Joglekar)
381. Workshop on computational materials science, Bangalore, February 15-17, 2007. Gave an invited talk, chaired a session. (R. Prasad)
382. Reach Symposium, Kalka, March 07-10, 2007, Gave an invited talk, (R. Prasad)
384. Workshop on magnetic materials, Kolkata January 08-10, 2007 Gave an invited talk, (R. Prasad)
389. Multicolored Atomic Coherence, Sixth DAE- BRNS National Laser Symposium (NLS-6), December 05-08, 2006, Raja Ramanna Center for advanced Technology, Indore. (H.Wanare)
390. Conference cum Seminar on the *Emerging Trends in Physics* September 20-23, 2006 held at Khalsa College, Delhi University Talk title: Signatures of spin glass freezing in NiO nanoparticles (Dr. K.P. Rajeev)
391. Plasmonic properties of checkerboards of negative $\varepsilon$ and $\mu$, 9th International conference on near-field optics, nanophotonics and related techniques, Lausanne, Switzerland, 10-15 Sept. 2006 (Poster presented by Prof. O.J.F. Martin in our absence), S.A. Ramakrishna, S. Chakrabarti and S. Guenneau.
394. Understanding boundary induced phase transitions in asymmetric simple exclusion processes through boundary layer analysis –International conference “StatPhys VI”, Kolkata from 5th-9th January (2007), Sutapa Mukherjee
395. Boundary layer analysis for asymmetric simple exclusion processes - Colloquium at BHU on 19th March (2007) Sutapa Mukherjee

396. International Conference on 9th Asian Symposium on Information Display (ASID’06), October 2006, held at New Delhi on “OLED Fundamentals” (Tutorial) Y. N. Mohapatra

SEMINAR PRESENTED


7. Effect of blockage on Vortex induced Vibrations at Low Reynolds Numbers, in 7th World Congress on Computational Mechanics (WCCM), Hyatt Regency Century Plaza Hotel, Los Angeles, California, USA July 16-22, 2006, S.Mittal, T.K. Prasanth and S. Behara.


15. Computation of solid-fluid coexistence conditions by thermodynamic integration, Chemical Engineering Department, IIT Kanpur, April 21, 2006, P. A. Apte.
20. From molecules to materials: Surfactants as building block, contributing talk in National Chemical Laboratory, Pune, April, 2006, R. Bandyopadhyaya.
22. From clustering expression data to gene network reconstruction: array informatics using mathematical programming, CSJM University, February 2007, S Garg.
27. National Cheng Kung University, Tainan, Taiwan, J. P. Gupta.
29. Aging dynamics in soft glasses, Raman Research Institute, Bangalore, November 2006, Y.M. Joshi.
32. Self-organized meso fabrication with polymers, Central Glass and Ceramic research Institute (Kolkata); May 2006, A. Sharma.
33. University of Erlangen-Nuernberg; October 2006, A. Sharma.
34. National Institute of Standards and Technology (NIST, Maryland); July 2006, A. Sharma.
35. Presented Models of Vehicular Traffic: An Engineering Perspective; IIT Delhi, October 2006, Chakraborty, P.
40. Presented Research avenues unfolded by LiDAR technology, Map World Forum 2007 Hyderabad, 24 January 2007 (Invited presentation), Lohani, B.
42. Active fault influence on the evolution of drainage and landscape: Evidence from frontal areas along Northwestern Himalaya, India. 3rd AOGS annual meeting at Singapore, July 2006, p. 950/1202, 2006, Malik, J. N.
43. Probable occurrence of Paleo-tsunami deposit: Evidence from preliminary trench investigations around Port Blair, South Andaman, India. 3rd AOGS annual meeting at Singapore, July 2006, p. 932/1202, 2006, Malik, J. N.
45. Coseismic Land-level changes caused by 26 December, 2004 Sumatra earthquake and evidence of paleotsunami deposits (?) in Andaman and Nicobar Islands, India. 100th Anniversary 1906 San Francisco Earthquake conference at San Francisco, April, 2006, 2006, Malik, J. N., and Murty, C. V. R.
47. Keynote Speaker, International Disaster Management Symposium :: Culture of Prevention, 18 January 2007, Kobe, JAPAN
49. Luncheon Speaker, Future of World Housing Encyclopedia, Business Luncheon of the Earthquake Engineering Research Institute, USA, during the 8th US National Conference on Earthquake Engineering, 19-21 April 2006, San Francisco, USA
50. Presenter, Dependence of Ductility and Energy Dissipation on Limiting Strain States in Seismic Design of RC Columns, during the 13th World Conference on Earthquake Engineering, 1-6 August 2006, Vancouver, CANADA
51. Speaker, Seismic Design of Steel Plate Shear Walls in Steel Frames, 3rd Indo-German Workshop and Theme Meeting on Seismic Safety of Structures, Risk Assessment and Disaster Mitigation, 12-13 March 2007, BARC, Bombay
52. Invited Speaker, International Roundtable on Lessons from Natural Disasters, Policy Issues and Mitigation Strategies, 8-12 January 2007, Vellore, India
53. Invited Speaker & Chief Guest, Role of Engineers in Disaster Management, Engineers’s Day Celebration, 14 September 2006, Institution of Engineers (India), Indore Chapter
57. Atmospheric Nucleation of Aerosols, Center for Climate System Modeling, The University of Tokyo, July 28, 2006, Tripathi, S.N.
58. Atmospheric Pollution, Dept. of Chemical Engineering, Institute of Technology, Banaras Hindu University, Varanasi, November 06, 2006, Tripathi, S.N.
59. 2-day workshop on Embedded Wireless Sensors, as part of ICTP-ITU-URSI School on Wireless Networking for Scientific Applications in Developing Countries, ICTP, Trieste, Italy, February 20-21, 2007, Bhaskaran Raman.

60. Bhaskaran Raman, an Introduction to WiFi (IEEE 802.11), iSync - Communication Technology Workshop, 25 August 2006, Punjab Engineering College, India, Bhaskaran Raman.


62. Transcrypt: An Encrypting File System at more than 10 colleges in India, Dheeraj Sanghi.

63. An Introduction to IPv6, at more than 10 colleges in India, Dheeraj Sanghi.

64. Why should CSE students go for MTech/PhD, at more than 30 colleges in India, Dheeraj Sanghi.


68. Integrated Memory Controllers with Parallel Coherence Streams, Workshop on Cutting-edge Computing held in conjunction with the 13th International Conference on High-Performance Computing, December 2006, Mainak Chaudhuri.

69. Integrated Memory Controllers with Parallel Coherence Streams, Invited speaker, Indian Institute of Science, Bangalore, December 2006, Mainak Chaudhuri.


72. Primality Tests Based on Fermat's Little Theorem, Invited talk given at 7th ICDCN, Guwahati, Manindra Agrawal.

73. Finite Rings and Integer Lattices, Series of talks given at Bellairs Institute, Barbados, Manindra Agrawal.

74. A Short History of PRIMES is in P, Talk at ICALP, Venice, Manindra Agrawal.


82. Invited presentation on Conceptualization of Power exchange in India – Solutions and challenges, 22 Feb. 2007, National regional load dispatch center (NRLDC), New Delhi, India, P. K. Kalra.


88. Delivered an invited lecture DC and AC Variable Speed Drives in AICTE sponsored Staff Development Programme on Recent Trends and Applications in


Three-day Workshop on Rotating Machinery Insulation, BHEL, Bhopal, Jan 2007, N. Gupta.

On Universal Compression, Shannon’s Entropy and Individual Sequences on February 11, 2006 in TECHNEX (Students’ Technical Festival held at BHU-IT, Varanasi), R. K. Bansal


All-optical packet switching: architectural and design issues, ADCAN Lab, Dept. of Computer Science, Chonbuk National University, Jeonju, South Korea, 04 December 2006, Y. N. Singh.

Issues in design and development of learning management system, Indian-ASEAN seminar of Elearning, 6-7 November 2006, Hyderabad, Y. N. Singh.

Optical communications: transmitters and receivers, Short course on Optical Communications, NIT Raipur, 14 July 2006, Y. N. Singh.
105. All Optical Packet Switching: Architectures and issues, Invited talk in TIFAC-CORE@DCE, Delhi College of Engineering, Delhi, 23 April 2006, Y. N. Singh.
109. All-optical packet switching: architectural and design issues, ADCAN Lab, Dept. of Computer Science, Chonbuk National University, Jeonju, South Korea, 04 December 2006, Y.N. Singh.
110. Issues in design and development of learning mangement system, Indian-ASEAN seminar of Elearning, 6-7 November 2006, Hyderabad, Y.N. Singh.
111. Optical communications: transmitters and receivers, Short course on Optical Communications, NIT Raipur, 14 July 2006, Y.N. Singh.
113. All Optical Packet Switching: Architectures and issues, Invited talk in TIFAC-CORE@DCE, Delhi College of Engineering, Delhi, 23 April 2006, Y.N. Singh.
120. Invited lecture on Software Project Management at Bharti Vidya Pheeth for their faculty, New Delhi, Dec 2006, Bansal, Veena.
121. Innovation for Strategy Creation and Implementation, invited seminar at Iran Oil Company, Iran, 10 June 2006, Arun P Sinha.
128. Two lectures each on Transport Phenomena in Porous Media and Measurements in Turbulent Flow, delivered at Department of Mechanical Engineering, Jadavpur University, Kolkata on 12th and 13th January 2007, K.Muralidhar.
130. Delivered 4 lectures on chaotic dynamics and two popular lectures in Indian Academy of Science sponsored summer school held at IIIT, Hyderabad, 2006. A.K.Mallik.
133. From natural numbers to numbers and curves in nature, lecture delivered at Mechanical Engineering Department, BESUS, February 3, 2007, A.K. Mallik.
139. Robot Motion Planning: An Overview, Jadavpur University, 25 September, 2006, Bhaskar Dasgupta
141. PVDF based Smart sensor for sensing slips in Manipulators, IGKAR, August, 2006, Bishakh Bhattacharya.
148. Chaired a session in ICOMAST-2006 held at Melaka (Malaysia) on Unconventional Machining, V.K. Jain.
149. Chief Guest at National Seminar on Advanced manufacturing Technologies held at MNNIT Allahabad and presented a Key Note Lecture on Evolution of Advanced Machining Processes held during March, 2007, V.K. Jain.
151. Given an invited seminar titled Molecular Metal Silicates, Phosphonates and Hydroxides at Department of Chemistry, IIT Bombay on Dec. 8, 2006, Ganapathi Anantharaman.

152. Modulation of the Ru-Ru Single Bond by Axial Donors in Diruthenium Paddlewheel Complexes; 37th International Conference on Coordination Chemistry (37th ICC) at Capetown on August-2006, J.K. Bera.


155. Ligand-Centered Reduction Steps in \([\text{M}_2(\text{pyNP})_2]^{n+}\) Units (M = Mo, Re, Ru, Rh); 3rd Singapore-India Collaborative and Cooperative Chemistry Symposium (3rd SInCCC) at IITK on December-2004, J.K. Bera.

156. Ligand-Centered Reduction Steps in \([\text{M}_2(\text{pyNP})_2]^{n+}\) Units (M = Mo, Re, Ru,); at IITG on December-2004, J.K. Bera.

157. Intra and intermolecular vibrations and hydrogen bonds in aqueous systems: A quantum simulation study, Indian Association for the Cultivation of Science, November 27, 2006, A. Chandra.


160. Inorganic and Organometallic Polymers and Dendrimers. Refresher course at BHU, October 5 2006, V Chandraskehar.

161. Multiple bonds between main-group elements. Refresher course at BHU, October 5 2006, V Chandraskehar.

162. A lecture on NMR. VSSD College, Kanpur. 10th October 2006, V Chandraskehar.


170. Implementing Adiabatic Quantum Computing, Debabrata Goswami, Symposium on Quantum Information, School of Physical Sciences, JNU, Delhi, March 16-17 (2007), D Goswami.


176. Invited lecture at Institut für Chemie, Abteilung Organische Chemie, Universität Rostock, Albert-Einstein-Str. 3a, 18059 Rostock, Germany: (June 16, 2006), F.A. Khan.

177. Invited lecture at Institute of Organic Chemistry, University of Tuebingen, Auf der Morgenstelle 18, 72076 Tuebingen, Germany: (June 20, 2006), F.A. Khan.

178. Invited lecture at Institute of Organic Chemistry, University of Hanover, Schneiderberg 1B, D-30167 Hanover, Germany: (June 27, 2006), F.A. Khan.


181. Coordination Chemistry of Pyridine Amide Ligands: Structures and Properties, Department of Chemistry, Stanford University, USA (April 18, 2006), R. N. Mukherjee.
191. Department of Chemistry, IIT Delhi, 5th April, 2006, Y.D. Vankar.
192. Department of Chemistry, Universität Konstanz, Konstanz, Germany, May 8, 2006 under INSA-DFG exchange programme. Delivered a lecture titled Synthetic endeavors towards glycosidase inhibitors and glycosamino acids, Y.D. Vankar.
199. Indian Institute of Chemical Biology, Kolkata, June 14, 2006, Y.D. Vankar.
201. School of Chemistry, University of Hyderabad, Hyderabad (October 2006), Y.D. Vankar.
205. Gyrotactic Bioconvection simulations, Engineering Mechanics Unit, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, Ghorai, S.
208. Improved estimation of parameters in linear regression models, at Deutsches Zentrum fur Luff-und Raumfahrt e.V. (DLR), Institute of Spce Simulation, Koln, Germany in August 2006, Shalabh.
212. Image Processing for DTI and Tractography in CEP on Imaging Techniques In Life Sciences, February 2007, Institute of Nuclear Medicine & Allied Sciences, Delhi Rathore, R. K. S.
215. Overview of Finite Difference Methods for Partial Differential Equations (02 lectures) at University of Pune, October 2006, Kadalbajoo, M.K.
217. An overview of Finite Difference Methods for PDE’s (02 lectures) IIT Madras, December 2006, Kadalbajoo, M.K.
220. On sequence spaces in the department of mathematics, University of Addis Ababa, Ethiopia on Dec. 7, 2006, Gupta, M.
221. Banach spaces of entire sequences and their Kothe duals, Gupta, M., Pradhan, S.
222. Consistent Estimation of Regression Coefficients I Measurement Error Model under Exact Linear Restrictions in 4th International Workshop on TLS and Errors-in-Variables modeling, Aug. 21-23, 2006, Garg, G.
223. Voxel wise exact T Estimation for Accurate Quantitation of Perfusion Indices using Fast 30-SPGR in Intracranial Mass Lesion, ISRM 14th Scientific Meeting & Exhibition Scattle, Washington, USA from 6-12, Singh, A.
224. Banach spaces and their applications in analysis at Miami University, Ohio from May 22-May 28, 2006, Acharya, L.R.
225. A DTI Analysis tool and another Newton-Raphson method for in vivo 1H MRS Data, ESMRMB 23rd Scientific meeting, Warsaw, Poland, 21-23 September 2006, Purwar, A.
226. De-scalping of the brain in echo planar DT-MRI, ISMRM 14th Scientific meeting & Exhibition, Scattle, Washington, USA, Sarma, M.K.
228. On Double Diffusive natural convention in wavy porous enclosure under the influence of soret and dufour effects, ICAPM-2006, May 28-Jun 4, Marrakech, Morrocco, B.V. Rathish Kumar et al
229. Unusually Stabilized WEBS-FEA of generalized Stokes Equations based on static condensation of quadratic Bubbles, MAFELAP 2006, June 12-16, Brunel University, London, B.V. Rathish Kumar, V.V.V.S.Kumar, P.C.Das
231. Numerical simulation of thermal hydraulics in ADSS Model, EUA4#19-EUAXevent, 2006, IAC-CNR, ROMA, ITALY, B.V.Rathish Kumar, Arul Prakash, B. V. Rathish Kumar, Arul Prakash, G. Biswas,

234. Instabilities in superconductors and mapping megagauss magnetic fields associated with laser plasma interactions. S. N. Bose National Center for Basic Sciences, Kilkata, 30th March, 2007, Satyajit Banerjee

235. Intense microwave plasmas for focused ion beams, Variable Energy Cyclotron Center, Kolkata, April 06, 2006, Sudeep Bhattachargee

236. Intense microwave plasmas for ion source application”, Institute for Plasma Research, Gandhinagar, November 08, 2006, Sudeep Bhattacharjee


239. Molecular Machines, Physics Department, Banaras Hindu University, Varanasi, February 08, 2007, D Chowdhury.


242. Effect of long-range connections on an infinite randomness fixed point, Statphys-Kolkata VI, Raichak, 5th January, 2007, Amit Dutta

243. Long-range connections, contact processes and disorder correlation, Department of Physics, Indian Institute of Technology Kanpur, 23rd February, 2007, Amit Dutta

244. Long-range connections and contact processes, S. N. Bose National Center for Basic Sciences, Kolkata, 6th March, 2007, Amit Dutta

245. Heavy fermion behaviour in YbIr$_2$Si$_2$ and Quadrupolar order in YbRu$_2$Ge$_2$, University of Koln, Germany, 11 October 2006, Z. Hossain.


249. Spin Fluctuations in the Triangular-Lattice Antiferromagnet Institute of Physics, Humboldt University, Berlin, 26 April 2006, Avinash Singh.

250. Spin Dynamics in the Diluted Ferromagnetic Kondo Lattice Model Institute of Physics, Humboldt University, Berlin, 17 May 2006, Avinash Singh.

251. Clustering Induced Suppression of Ferromagnetism in Diluted Magnets Institute of Physics, University of Regensburg, 12 Sep. 2006, Avinash Singh.


257. The time of sojourn for a wave traversing a material medium., Institut Fresnel, Universite Aix Marseille . I, France, 19 May 2006, S. A. Ramakrishna.


259. Delay times for pulses in plasmas and negative index media., The Blackett Laboratory, Imperial College London, 26 May 2006, S A Ramakrishna.

260. Colloquium on Negative refractive index and optical anti-matter., Nanophotonics and Metrology Laboratory, Ecole Polytechnique de Lausanne, Switzerland, 12 June 2006, S A Ramakrishna.

261. Delay times for pulses in plasmas and negative index media., Department of Physics, University of Geneva, Switzerland, 22 June 2006, S A Ramakrishna.

262. Seminar on Manipulating light with negative refraction. Institute of Microtechnology, University of Neuchatel, Switzerland, 12 July 2006, S A Ramakrishna.

263. Colloquium on Physics of Negative refractive index materials., Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, 21 Dec. 2006, S A Ramakrishna.

264. Negative refractive index on metamaterials at Optical frequencies., Raman Research Institute, Bangalore, 22 Dec. 2006, S A Ramakrishna.

265. Colloquium on Metamaterials and negative refractive index., Birla Institute of Technology and Science, Pilani, 06 March 2007, S A Ramakrishna.
OTHER ACTIVITIES

(A) TECHNOLOGY DEVELOPED

1. On-going developmental work on synthesis and trial of silver particle embedded granular activated carbon (GAC) filter as antibacterial agent in drinking water filtration and purification systems, in collaboration with Filtrex Technologies Pvt. Ltd., Bangalore, R. Bandyopadhyaya.

2. On-going developmental work on synthesis and tuning of superparamagnetic iron-oxide nanoparticle suspension, to be used as enhanced contrast agent for MRI diagnosis of disease, in collaboration with SGPGI, Lucknow, R. Bandyopadhyaya.


5. A Pilot Plant for the technology developed in ARRPET project is running at Vapi, Gujarat since June 2006. Funding for construction, operation and maintenance of the pilot plant has been provided by Vapi Waste & Effluent Management Co. Ltd., S. Guha.

6. Wake-on-WLAN technology for remote switch on/off (see WWW'06 publication for details), Bhaskaran Raman.

7. The BriMon system for Railway Bridge Monitoring, Bhaskaran Raman.

8. SIMRAN Technology, B.M. Shukla.


10. Track Detection, B.M. Shukla.

11. Smart Card projects: Department of CSE is involved in the specification and development of the operating systems for smart cards. A major success story is the development of SCOSTA operating system for the smart cards. This operating system has been adopted for the use in Driving Licenses, Vehicle Registration Certificates and Multi-purpose National Id card, all based on the smart cards. Lately, a standard has been developed for the smart cards to be used in the electronic passport. In addition to these, various applications have been developed around the smart cards. These include the personalization system for the driving licenses and vehicle registration system (jointly with NIC),
personalization system for the national ID card (jointly with the NIC), multi-purpose Identity card IIT Kanpur including applications such as attendance, library, club memberships etc. Department received another big project form the Ministry of Communication and Information Technology on the standardization and development of readers for the smart cards. The department will be developing hand held readers which can be deployed in the field for working with the smart cards such as those listed above, Rajat Moona.

12. The department is involved in the development of postal bag tracking along with CDAC Noida through a project funded by the Ministry of Communication and Information technology. In this project, the RFID based technologies are to be developed for automatic tracking of the speed post articles across various transit mail offices. In the pilot project, the mail that flows between Delhi and Bombay will be tracked, Rajat Moona.

13. Low power MOSFET based inverter; Status: packaging in progress, P. Sensarma.

14. IGBT gate drivers with inherent short-circuit protection scheme and isolation (2 kV) for Voltage Source Inverters; Status: beta testing in progress, P. Sensarma.

15. Removal of Scratches, Blotches and color fading in old Motion picture films, Ready for Transfer, S. Gupta.


20. Wake-on-WLAN (Remotely wakes up wireless LAN devices and hence helps save considerable power), Further development needed, K. Chebrolu.


23. A working prototype developed for the measurement of Laser Range finder based Angle of Attack and Tracking Position of Rail axles for the Indian Railways as part of the project on “Trackside Bogie Monitoring System”. Further development required before technology transfer, J. John.

24. UHF RFID tag antenna, prototypes are undergoing testing at the partnering organization, A. R. Harish.


26. Powder Metallurgical Processing of SILVAR composites for thermal management application in communication satellites developed in collaboration with Mr. A. Pathak and his team at Space Application Center (SAC), Ahmedabad. This project
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was undertaken under the aegis of ISRO-IITK Space Technology Cell, A. Upadhyaya.
28. Mathematical modeling and computational analysis of large-dof robot manipulators: B. Dasgupta
29. Development of Foil Air Bearing for Air Cycle Machine. Technology transferred to HAL, Lucknow. The product is at the phase of manufacturing and testing, S.Sarkar
30. Developed an autonomous robot with a sensor probe for detecting surface features inside a closed conduit, the technology will be delivered to the Naval Armament Board, Bishakh Bhattacharya.
31. Developed a novel turn-indicator using Shape Memory Alloy with auto-shut off mechanism for General Motors, Bishakh Bhattacharya.
32. Straight Vegetable Oil (SVO) for direct use in compression ignition engines, A.K. Agarwal.
33. Fabricated solar photovoltaic cells with imidazolin-5-ones. These are biodegradable and currently being optimized, R Gurunath.

(B) SOFTWARE DEVELOPED

1. Title of the software, Ready for Transfer/further development needed, S. Guha.
2. Limulator, Available for download at http://home.iitk.ac.in/~blohani/download.htm, further being developed to make it more comprehensive, B. Lohani.
3. LAS-Converter, Available for download at http://home.iitk.ac.in/~blohani/download.htm, further will be developed on the basis of feedback on present version, B. Lohani.
8. HP iPAQ 6315 based way point logger cum way point arrival notification system.
12. Pickpacket v2: Network Monitoring Tool, More improvement one over the last year’s version (Ready to be transferred.), Dheeraj Sanghi.
15. Image compression s/w and GUI Interface, Ready for Transfer, P. K. Kalra.
19. RF breakdown power prediction in transmission lines, Kalpesh Mehta and A.R. Harish.
22. Advanced optical microscopy (3D imaging) (developed in house), Sandeep Sangal.
23. “Yantrika”, an integrated software package for analysis, design, planning and control of large-dof robot manipulators, almost ready for transfer (trial version already delivered, to IGCAR, Kalpakkam, B.Dasgupta.
24. Developed a software for Shape Control of Space Antenna Structure to be delivered to ISRO, Satellite Centre Ahmedabad. Bishakh Bhattacharya.
25. Developed a LES code for complex geometry, S.Sarkar.

(B) INDUSTRIES VISITED

4. Visited Indo-Gulf Fertilizers (Jagdishpur, UP) to discuss and finalize sponsored consultancy project of cost Rs. 21 Lakhs on “to develop membrane process based scheme in order to recycle urea plant process condensate after recovering Gases (Ammonia and CO2) and Urea”. Starting Date: November 2006, P.K. Bhattacharya.
5. Visited twice to Transpek-Silox, Vadodara (a multi-national company manufacturing inorganic chemicals) to discuss and finalize sponsored consultancy project of cost Rs. 10 Lakhs on “to develop a scheme for recycling of TSIL biologically treated effluent (300 m³/day) in order to recover water as well as for any discharge to municipal drainage, adhering pollution norms”, P.K. Bhattacharya.
6. Chinese Petroleum Corporation, July, 2006 to deliver a seminar and to discuss possible collaboration, J. P. Gupta.
7. Visited College of Engineering, Thiruvananthapuram (Kerala) during March 16-18, 2007 as NBA expert for accreditation of their M.Tech Structural Engineering Programme, Chakrabarti, S.K.

8. Visit to IRC as a member of the committee on Transport Planning, Traffic Engineering and Road Safety, Chakraborty, P.

9. Visit to SVNIT Surat to help them develop an M.Tech. program in Transportation, Chakraborty, P.

10. DTRL-DRDO, Invited for discussion on DTRL projects, 15 February 2007, Lohani, B.

11. Shell Technology India Private Limited, Bangalore; 30th March, 2007. To discuss mutual R&D activities in the area of earth sciences, Sinha, R.


13. IBM, Bangalore; Intel, Bangalore; IIT, Kharagpur; IISc, Bangalore; Cornell University, Ithaca, NY, USA, Mainak Chaudhuri.

14. IITG, UCSD, CalTech, UCLA, Berkeley, Stanford, CWI, University of ULM, Bellairs Institute, Manindra Agrawal.


23. BHEL, Bhopal, Sensarma P.


25. Industrial visit to study distributed control systems in the following industry: Alumina Refinery plant of HINDALCO Renukut, 1 day, R. Potluri., Captive Power plant of HINDALCO, Renusagar, 1 day, R. Potluri., NTPC Shaktinagar, 1 day, R. Potluri, October 03 - 05, 2006.

26. Crompton Greaves, Mumbai, to discuss research possibility, N. Gupta.
27. BHEL, to discuss possibility of research collaboration, N. Gupta.
28. CPRI, Bangalore, to establish collaboration, N. Gupta.
31. Visit to RDSO, Lucknow in connection with the field trials and interactions with railway engineers on the Trackside Bogie Monitoring System project under the Technology Mission on Railway Safety. One visit per month from April 2006 to March 2007, J. John.
32. Visited NTU Singapore during December 03 – 16, 2006 for exploring possible technical collaboration. Delivered two lectures on Fractal Antennas and Chaos at Microwave Frequencies, A.R. Harish.
33. Visited the Div. of Communication Engineering, School of EEE, Nanyang Technological University, Singapore as TCT Fellow during May 06-June 06, Anjan K. Ghosh.
34. Visiting the Telecom Systems Program, School of electrical and computer engineering, University of Oklahoma, Tulas as a visiting Professor from July 06-Aug08, Anjan K. Ghosh.
35. Mazandran University of Science & Technology, Iran, J. Chatterjee.
36. Tampere University of Technology, Finland, J. Chatterjee.
38. Curtin University of Technology, Sydney Campus, Australia, J. Chatterjee.
39. International Management Institute, New Delhi, India, J. Chatterjee.
40. Management Development Institute, Gurgaon, India, J. Chatterjee.
41. National Knowledge Commission, New Delhi, India, J. Chatterjee.
42. Indian Council of Agriculture Research, New Delhi, India, J. Chatterjee.
43. Centre for Management of Innovation and Technology, New Delhi, India, J. Chatterjee.
44. University of a Kassel, Germany, J. Chatterjee.
45. Indian Institute of Management, Kolkata, India, J. Chatterjee.
47. ICRISAT, Hyderabad, India, J. Chatterjee.
48. Innovation Management Institute, Helsinki, Finland, J. Chatterjee.
49. IIM Khozhikode, Kerala, India, B.V. Phani.
50. Invited as Visiting Faculty by Department of Psychology, Osmania University, Hyderabad to give lectures on Multivariate Statistical Methods, February 26-March 03, 2007, Narendra K. Sharma.
52. Rare-Earth Oxide Dispersed Sintered Stainless Steels (REO-Steels), (filed, 2006), Upadhyaya, R. Balasubramaniam, and J. Shankar.


56. Visited Dept. of Mechanical Science and Engineering, Nagoya University, Japan for teaching and research from 1st May 2006 to 31st March 2007, A. Dutta.

57. ISRO Satellite Centre, 1-3 Jan 2007 for discussion on projects, B. Dasgupta.

58. Visited University of Verona, Italy on an Indo-Italian Joint Project on development of shear sensors for robotic manipulators in September 2006, period 2 weeks. Bishakh Bhattacharya.

59. Visited University of Illinois at Urbana Champaign and University of California at Irvine on an Indo-US project on development of micro-gripper manipulator using IPMC, period 10 Days, Bishakh Bhattacharya.


63. Visited University of Electrocommunications, Tokyo, University of Shizouka, Hamamatsu, Suzuki Motors, Iwata, Hamamatsu Photonics, Hamamatsu, October 2006, N.V. Reddy.

64. Visit to Indian Institute of Science for Research data collection in 17-23, August 2006, R. Gurunath.

(D) PATENTS

1. Profile measurement machine (filed for patent), C. Venkatesan.


3. Pressureless Room Temperature Micro- and Sub-micro Patterning of polymer Films Coated on Planar or Curved Surfaces Using Patterned Flexible Foils as
Stamp and Articles Formed Thereby, Indian Patent 1519/DEL/2006 filed on June 28th, 2006 (A. Sharma, Rabibrata Mukherjee, Danish Faruqui and Ganesh Patil).


10. A low complexity symbol timing estimator for MIMO Modem using two samples per symbol (Pending award of patent), A. K. Chaturvedi and Ketan Rajawat.


17. Magnetorheological abrasive flow finishing process and device therefore V.K. Jain.

18. New media for AFM machining - Indian Patent (filed), J. Ramkumar.


(E) AWARDS AND HONOURS


2. Member, International Organizing Committee of ICCM07 & Session Chairman, International Conference on Computational Methods, Hisoshima JAPAN 4-6 Apr 2007), Sanjay Mittal.


4. Fellow Indian Academic Sciences since 2007, Sanjay Mittal.


6. Member, Organizing Committee, REACH Symposium, IIT Kanpur March 7-10 Hotel Timber Trail Heights, Sanjay Mittal.


8. INAE Young Engineer Award, A. Ghatak.

10. Associate of Indian Academy of Sciences (2006-2009), Y.M. Joshi.
14. J. C. Bose National Fellowship, Department of Science & Technology (2006-2010), A. Sharma.
16. RPG Life Science Padma Vibhushan Professor M M Sharma Medal and Chemcon Distinguished Speaker Award of the Indian Institute of Chemical Engineers (2006), A. Sharma.
18. Member of Editorial Board, Indian Chemical Engineer (Journal of the Indian Institute of Chemical Engineers; 2006-), A. Sharma.
19. INAE Young Engineer Award for the year 2006. Awarded by the Indian National Academy of Engineering for engineers below the age of 35, V. Shankar.
22. Best Poster presentation award at Map World Forum 2007 to paper 3D visualization of LiDAR data, Coauthored with Ghosh, S., Lohani B.
23. Fellow, Institution of Surveyors India, Lohani B.
25. S. S. Merh Award from Geological Society of India for contributions in Quaternary Geology, 2006, Rajiv Sinha.
27. The poster "Wake-on-WLAN" under the guidance of Kameswari Chebrolu and Bhaskaran Ramana won the best poster award amongst 24 entries from PhD and M. Tech students of IITs, IISc and other premier institutes at the Microsoft Techvista 2007, Nilesh Mishra.
28. IBM Faculty Award, 2006, Mainak Chaudhuri.
30. Fulkerson Prize for 2006, Manindra Agrawal.
32. IBM Faculty Award, 2006, Prabhakar T.V.
33. Awarded the Fulkerson Prize for the year 2006, Neeraj Kayal and Nitin Saxena.
34. Awarded the Gödel Prize for the year 2006, Neeraj Kayal and Nitin Saxena.
35. Best Presentation Award in IRISS 2007, Barna Saha.
36. The Best Poster/Demo Award at WISARD 2007, Nilesh Mishra, Raj Kumar, Phani Kumar Valiveti and Hemanth Haridas.
37. Project "Autopilot Development for Mini UAV : Hardware Software Co-Design" under the guidance of Prof. Rajat Moona won the FIRST PRIZE in the AES All-India Student Project Contest - 2006 conducted by the IEEE-India AES/Com/LEO Societies Chapter, Mohit Mangal (CSE), Mohit Mundhra (CSE), Gaurav Gupta (EE) and Shobhit Niranjan (EE).
38. Outstanding Ph.D Student award of IBM India Research Lab for the year 2006, Piyush Kurur.
39. Program Chair, APSEC 2006, Pankaj Jalote.
40. General Chair, RE07, Pankaj Jalote.
41. Member International Program Committee Machine Translation Summit 2007 Copenhagen, Denmark, R.M.K. Sinha.
42. Member national Technical Advisory Committee of Centre for Development of Advanced Computing (CDAC), R.M.K. Sinha.
43. Member Working Group on "Technology Development for Indian Languages (TDIL)", MCIT, Govt. of India, R.M.K. Sinha.
44. Member PRSG on OCR and OHR Consortia, MCIT, Govt. of India, R.M.K. Sinha.
45. Member PRSG on English to IL MT Consortia, MCIT, Govt. of India, R.M.K. Sinha.
47. Finance chair, APSEC 2006, Sanjeev Kumar Aggarwal.
48. Finance Chair, RE07, Sanjeev Kumar Aggarwal.
49. Editorial Board of International Journal of Theoretical and Applied Computer Sciences, Sanjeev Kumar Aggarwal.
50. Program Committee member for the International Conference on Computing : Theory and Application (ICCTA’07), March 5-7 2007, Kolkata, India, Shashank K. Mehta.
51. Elected Fellow, Institute of Electrical and Electronics Engineers (IEEE) for contributions to education in power electronic applications to transmission and distribution systems, A. Ghosh.
52. The Brij Mohan Lal Memorial Prize, Institute of Engineers, Kolkata, India, P.K. Kalra.
55. Invited to join as Member of the State Advisory Committee of the U.P. Electricity Regulatory Commission, S. C. Srivastava.
56. Member, Governing Council of Central Power Research Institute, Bangalore, S. C. Srivastava.
59. Re-nominated as Member of the State Advisory Committee of the U.P. Electricity Regulatory Commission for 2007-09, S. C. Srivastava.
60. Elected Humboldt Fellow, S.N.Singh.
61. Elected Fellow of The Institution of Engineers (India)- (FIE), S.N.Singh.
63. Member International Program Committee Machine Translation Summit 2007 Copenhagen, Denmark, R. M. K. Sinha.
64. Member national Technical Advisory Committee of Centre for Development of Advanced Computing (CDAC), R. M. K. Sinha.
65. Member Working Group on "Technology Development for Indian Languages (TDIL)", MCIT, Govt. of India, R. M. K. Sinha.
66. Member PRSG on OCR and OHR Consortia, MCIT, Govt. of India, R. M. K. Sinha.
67. Member PRSG on English to IL MT Consortia, MCIT, Govt. of India, R. M. K. Sinha.
70. Tan-Chin-Tuan Fellowship from Nanyang Technological University, Singapore, Anjan K. Ghosh.
72. The AMERICAN MEDAL OF HONOR (received medal number 9 out of 100), American Biographical Institute Inc., 5126 Bur Oak Circle, PO Box 31226, North Carolina, 27622, USA. Web: www.abiworldwide.com, Prof. RRK Sharma.
73. Nominated as 2006 Man of The Year, American Biographical Institute Inc., 5126 Bur Oak Circle, PO Box 31226, North Carolina, 27622, USA. Web: www.abiworldwide.com, Prof. RRK Sharma.
74. Biographee, Marquis, Who's Who in Asia, 890 Mountain Ave, Suite 300, New Providence, NJ 07974, United States of America, Prof. RRK Sharma.
77. Honorary Appointment to Research Council of International Biographical Centre, St. Thomas Place, Ely, Cambridgeshire, CB7 4GG ENGLAND, Prof. R.R.K. Sharma.
79. Consulting editor E-Social Sciences; Dr. Varman, Rahul.
80. Associate Editor of International Journal of Technology, Knowledge and Society, The university press, common grounds, Victoria, Australia, Dr. Veena Bansal.
81. President Operational Research Society of India, Prof. Ashok K Mittal.
82. Vice President and Director Quality Circle Forum of India Hyderabad, Prof. Ashok K Mittal.
83. Fellow, Indian National Academy of Engineering, K. Shanker.
84. Dr. B. Basu has been appointed as Foreign Member on Editorial board, Journal of Korean Ceramic Society, South Korea.
85. Dr. B. Basu has been appointed as a Member of International Advisory Panel, College of Biomedical Engineering and Applied Sciences, Kathmandu, Nepal.
86. Dr. B. Basu has been appointed as a Member of Editorial board, Trends in Biomaterials and Artificial Organ, only Indian Journal in the area of Biomaterials, Society of Biomaterials and Artificial Organs, India.
87. Dr. Ashish Garg, Ramanna Fellowship, Department of Science and Technology, Government of India (2006)
89. Fellow of the American Society of Mechanical Engineers (ASME) Dr.G.Biswas
90. Best Paper Award in a conference the details of which are given below; A.K.Saha
92. Young Scientist Award, 2006, Systems Society of India, Bishakh Bhattacharya.
93. Ramanna Fellowship, Department of Science and Technology, Government of India, 2006, A. Chandra.
94. Lalit Kapoor Chair Professor, V. Chandrasekhar.
95. Member of Advisory Board and Session Chair for the “Lecture delivered by Lov Grover” at the Indo-US Shared Vision Workshop on Soft, Quantum and Nano Computing, Dayalbagh Educational Institute, Agra, February 22 (2007), D. Goswami.
96. J.C. Bose Fellow, Department of Science and Technology, New Delhi 2006, N. Sathyamurthy
97. Ramanna Fellowship by the Department of Science and Technology, New Delhi, Y D Vankar
98. Edited a special issue on ‘Carbohydrate Chemistry’, edited by Y. D. Vankar;

(F) CONTINUING EDUCATION ACTIVITIES

1. Acted as the resource person at SSGM College of Engineering, Shegaon, Maharashtra for AICTE sponsored First Course on CFD, 30 - 31 March, 2007. (30 participants from other engineering college and industry), Tapan K. Sengupta.
3. Organized a SERC-DST school on Rheology of complex fluids at IIT-Kanpur in December 2006, Y. M. Joshi.
5. Future of the past: Use of modern technologies in archaeology, IIIT Jabalpur sponsored, IIT Kanpur, 12 June to 7 July 2006 (Major resource person), Lohani, B.
7. Organised and/or conducted with Professors Durgesh C Rai and Sudhir K. Jain, continuing education programs for teachers of engineering colleges and polytechnics on “Seismic Design of Buried Pipelines” at IIT Kanpur in April 2006, (24 participants), on “Nonlinear Seismic Analysis of Structures” at IIT Kanpur in October 2006.
8. Organised and/or conducted with Professor Persi Engineer (Sarvajanik College of Engineering and Technology, Surat) and Ar. Amit Bose (Designers and Planners Combine, New Delhi), continuing education program for teachers of colleges of architecture, and professional architects and planners, on “Architecture for Earthquake Resistance of Buildings” at SCET, Surat in November-December 2006.
9. Five lectures delivered at the Winter School on Modeling of Planetary Atmospheres organised by Physical Research Laboratory, Ahemdabad, Tripathi, S.N.
10. Participation in High Level Industry Academia Interaction Programme during Summer: No, Tripathi, S.N.
14. Lecture module (8 hours) delivered at BHEL, Bhopal on “Power Electronic Converters”, November 9-10, 2006. 20 participants, P. Sensarma.
16. Mar 14-15, 2006. Organized "Workshop on Recent Advances in Controls & Sensors" at IITK. Speakers included faculty of IIT Kanpur and scientists from ISRO. Audience included faculty & students from NITs, IITs, and engineering colleges, and engineers and researchers from industry, R. Potluri.
18. Organizing Member of Winter School on Speech & Audio Processing (WISSAP’06 - 07), Bangalore. Self Sponsored (70 from Academia, 30 from Industry), S. Umesh.
19. Organization, Coordination, and main Instruction of Avionics Course For HAL candidates, K. S. Venkatesh.
20. Short course on “Introduction to VLSI Design” at HBTI, Kanpur from 19th to 21st Jan., 2006. Gave one hour inaugural talk on “VLSI Processing” on 19th Jan., 2006. Attendance was from academia (~40 participants), S. S. K. Iyer
22. Short course under Instruction Enhanced Programme under the Special Manpower Development Programme II of MCIT, on “Digital IC Design” from 3rd to 14th July, 2006 at IIT Kanpur. Attendance (~25) was from academia from participating institutes of MCIT. S. Qureshi, S. S. K. Iyer, B. Mazhari, A. Dutta, A. Joshi
23. QIP short course on “Organic Electronics” from 17th to 21st July, 2006 at IIT Kanpur. Helped in organization as well as presented four one-hour lectures. Attendance (27 nos.) was from academic institutions, S. S. K. Iyer, B. Mazhari
24. Tutorial on “Organic Electronics - Technology, Devices, Circuits and Applications” at the 20th International Conference on VLSI Design at Bangalore on 6th January, 2007. Helped organize the six hour tutorial and also conducted it for three hours. Number of participants was 25 from both academia and industry.
25. QIP Short Course on Advances in Materials and Fuel Technologies for Automotive Applications, 8-12th June 2006, IIT Kanpur
26. Offered a certificate course on Supply Chain Management through SIIC, IIT Kanpur. Mehta, P.
27. Accounting for Managers, Ordinance Factory Kanpur, B.V.Phani.
34. Fundamentals of IC Engines, One week sponsored course offered to RDSO engineers (15 participants), March 2007, A.K.Agarwal.

(G) PARTICIPATION IN HIGH LEVEL INDUSTRY ACADEMIA INDUSTRY INTERACTION PROGRAMME DURING SUMMER

1. Summer consultant to Chevron Refining, Richmond, CA, USA, D. Kunzru.
2. Conceptualized and organized the first meeting of Expert group on Coordinated programme on Research and Development in Airborne Altimetric LiDAR Technology at IIT Kanpur on 14 June 2006, Lohani, B.

(H) ANY OTHER IMPORTANT ACTIVITY NOT SPECIFIED IN ABOVE COLUMNS
1. Sustained activity in spreading literacy and Primary Education through an NGO called Shiksha Sopan, K. Ghosh.
4. Consultant to Delhi-Metro Railways Corporation for the proposed link between New Delhi Rail station to Airport, Tapan K. Sengupta.
5. Visited BIT-Sindri as Member - National Board of Accreditation (NBA) set-up by AICTE, P.K. Bhattacharya.
6. Attended meeting in Krishi Bhawan as Member, Advisory Board, National Sugar Institute, Kanpur (From September 2006), P.K. Bhattacharya.
8. Member- Selection Committees, IIT-Delhi (New Delhi), IIT-Kharagpur, P.K. Bhattacharya.
12. Appointed Director General, Gujarat Energy Research and Management Institute, Gandhinagar to set up a new University in Petroleum Technology and Management, J. P. Gupta.
14. Reviewed research paper manuscripts for (a) Chemical Engineering Science (b) Journal of Chemical Thermodynamics & (c) Industrial Engineering Chemistry Research, Ashok Khanna.
15. Structural design of Modern Hangar with Annexe at Bareilly (U.P.), Chakrabarti, S.K.
16. Proof-checking of the design of POT/PTFE bearings for H.L. Bridge at Katonjha over river Bagmati in Muzaffarpur (Bihar), Chakrabarti, S.K.
17. Rectification of the defective construction of the Swimming Pool under construction at Saifai (Etawah) (U.P.) (Sponsored by : U.P. Rajkiya Nirman Nigam Ltd.; Sanctioned Amount : Rs. 1.4 lakh), Chakrabarti, S.K.
18. Developed (along with Dr. A. Das, CE, IITK) Web-based NPTEL course on Transportation Engineering, Chakraborty, P.

19. Principal Investigator of the Wastewater Treatment and Management (WWTM) project of Asian Regional Research Programme in Environmental Technology II (ARRPET II). The project consists of five National Research Institutes (NRIs) from Thailand, Vietnam and India. More information is available at [http://www.arrpet.ait.ac.th/wwtm/team.html](http://www.arrpet.ait.ac.th/wwtm/team.html), S. Guha.

20. Center for Advanced Studies Visiting Fellow, Institute of Technology, Banaras Hindu University, Tripathi, S.N.

21. Member of Cloud Steering Committee, Department of Science and Technology CTCZ Experiment, Tripathi, S.N.

22. Member, Core Committee, Mars Orbiter, Appointed by Director, Physical Research Laboratory, Department of Space, Ahmedabad, Tripathi, S.N.

23. Member of Task Team and Steering Review Committee of the Space Borne Lidar Project, Vikram Sarabhai Space Centre, Thiruvananthapuram, Tripathi, S.N.

24. Participated in the 2nd National Frontiers of Science (NatFOS) Symposium held during 3-4 December, 2006 at INSA, New Delhi, Tripathi, S.N.

25. NPTEL Video Course on Power System Operation and Control, S.N. Singh.


27. Electronic Fabrication (ELFAB) module at 4-i Laboratory, S. Sensarma.

28. The High Voltage laboratory was enhanced with modern detection equipment: Partial discharge detector, high resolution high speed Basler camera, Picoammeter, photon counter, etc. N. Gupta.

29. Developed a DSP Laboratory based on Texas Instruments TMS320C6711/C6713 processors, A. Banerjee.

30. Expansion and Upgradation of VLSI / EDA Laboratory for Teaching, Research and Conducting of Courses for Participants from Colleges and Industry, WL-211, S. Qureshi


32. Participated in Class 1000 Room Functioning, SAMTEL Centre for Display Technology, S.S.K.Iyer.


34. Created a Web-based Course on Fluid Mechanics for the sophomore students (open to all, under the auspices of NPTEL, an consortium of the Ministry of Human Resource and Development) [URL
35. Expert Member, Technical Committee for Evaluation of Vehicle Emission Factors Development, Central Pollution Control Board, New Delhi, B.P. Pundir

36. Expert Member, Standing Committee on Emission Standards for Off-Highway RIC Engines, Central Control Pollution Control Board, New Delhi, B.P. Pundir

37. Consultant on EU ‘Quantify’ Project being conducted by European Union-Central Institute of Road Transport, Pune on Emission Inventory from Transport Vehicles in India, B.P. Pundir


40. Involved with Organizational activities of Indo-Japan seminar on Advanced Manufacturing, N.V. Reddy.

41. Sponsored projects on Tele-ophthalmology, Ministry of Health and Family Welfare, Rs. 10 lakhs, duration one year, Harish Karnick.

42. Project on Open Philosophies of Associative Autopoietic digital ecosystem (OPAALS) sponsored by European Commission, Prabhakar T.V.

43. Project on Voice Processing sponsored by General Motors, Prabhakar T.V.

44. Rajat Moona established a “Storage Lab” with collaboration and funding from TCS Lucknow. The lab facilities include a HP NAS Server with 500GB storage and a EMC SAN Server with 1.5TB storage. In addition to this the lab uses various new technologies related to the storage such as iSCSI initiator and iSCSI target. Several research works are also being carried out in the lab including research on the state-of-art in storage such as object oriented storage servers, security and availability of data etc.

45. The department has become the nodal centre in supporting the courses related to multi-core programming and architecture in the country. The project is funded by Intel Corporation. We have developed course ware on “Program Optimization for Multi-core Architecture”. The course ware is being distributed to other engineering colleges. We are participating in workshops being organized by Intel to propagate this technology, and for conducting teacher’s training programmes. Intel has established a laboratory having multi-core desktops and servers to support this activity. The laboratory also has all the Intel multi-core related software.

46. Reviewed Ph.D. theses each for Banaras Hindu University and Indian Institute of Science, R. Gurunath.
47. Reviewed manuscripts for journals Peptide Research and Current Science, R. Gurunath.

48. Executive member and co-editor of the Indian peptide society newsletter, R. Gurunath.


50. Organizer, International Conference on Quantum Computing: Back Action 2006 held during March 06-12, 2006. Funded through Indo-US, Max-Planck (Garshing) and MIT (USA), D Goswami.

51. Organized (with Prof. T. Chakraborty, IACS, Kolkata) the fourth International discussion meeting on Spectroscopy and Dynamics of Molecules and Clusters, held from February 23-25, 2007 at the Corbett National Park, India, K. Srihari.