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Director’s Report

Honorable Chairman, Board of Governors of the Indian Institute of Technology Kanpur, Professor M. Anandakrishnan, Distinguished Chief Guest, Professor Shih Choon Fong, Members of the Board of Governors, Members of the Academic Senate, all graduating students and their family members, all members of faculty, staff and students, invited dignitaries, guests, and members of the media: I heartily welcome you all on this occasion of the fortieth convocation of the Indian Institute of Technology Kanpur.

We are particularly happy to welcome Professor Shih Choon Fong, President, National University of Singapore, amongst us for our Convocation today.

The academic year closing in May 2008 has been momentous and I consider it a privilege to review our activities during this period.

ACADEMIC ACTIVITIES

The academic year 2007-08 has had a successful run. The number of graduating students both at the undergraduate (B Tech - 334, M Sc (5 year Integrated) - 40, B Tech – M Tech Dual Degree (5 year) - 60, M Sc (2 year) - 70, Total = 504) and the postgraduate (M Tech - 356, M Des - 6, MBA - 27, PhD - 101, Total = 490) levels show a satisfactory trend. The enrollment in the Doctoral program as well as the publication record of the faculty and students for the academic year has considerably increased. Faculty members and students published a large number of research papers in journals and conference proceedings. Books published by the faculty are listed in the appendix of this report.

AWARDS AND HONORS

The faculty and students of IITK continue to break new grounds at the frontiers 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 as an addendum to the report.

Our undergraduate students Sandip Gupta, Varun Mishra, Shrey Sahay, and Divyanshu Jha have been conferred the Goldman Sachs Global Leaders Award and are expected to attend the Global Leadership Institute in the USA. Amartya Mukhopadhyay received Dr. A. K. BOSE GOLD MEDAL by the Indian Institute of
Annual Report 2007-08

IIT Kanpur is proud of Professor Amalendu Chandra (Chemistry) who was conferred the prestigious Shanti Swarup Bhatnagar Award – 2007. Prof. R. N. Mukherjee (Chemistry) received the Sir J C Bose Fellowship by DST. Dr. J. K. Bera (Chemistry) and Prof. V. K. Yadav (Chemistry) have been awarded the Ramanna Fellowship by DST. Indian National Science Academy, New Delhi awarded its fellowships to Professors V. Chandrasekhar (Chemistry), Manindra Agrawal (Computer Science) and R. N. Mukherjee (Chemistry). Professors V. Eswaran and P. Munshi of the Mechanical Engineering Department have been elected Fellows of Indian National Academy of Engineering. Dr. Bikramjit Basu (MME) was awarded the International Coble Award of the American Ceramic Society. Incidentally, Dr. Basu will be the first Indian and the second Asian to receive this award. Drs. S. A. Ramakrishna (Physics) and Avinash Kumar Agarwal (Mechanical) have been awarded the INSA Young Scientist Award (2007). Professors V. Chandrasekhar (Chemistry) and Gautam Biswas (Mechanical) have received Fellowship of the National Academy of Sciences (2007). Dr. Ramkumar of the Mechanical Engineering Department has been granted the DAE Young Scientist Award for the year 2008. The Young Achiever’s award, 2007-08 of the Department of Atomic Energy (DAE) was awarded to Dr. Satyajit Banerjee (HSS). Dr. A. K. Ghosh (Mathematics and Statistics) and Professor V. K. Yadav (Chemistry) have been elected Associate and Fellow respectively of the Indian Academy of Sciences. Drs. Yogesh Joshi, Animangsu Ghatak and V. Shankar (Chemical) have received the IICHE Golden Jubilee Young Achiever Award. Dr. Sameer Khandekar has been awarded the George Grover Gold medal by the International Heat Pipe Committee for his outstanding contribution to the development of science and technology of heat pipes. Welliver Faculty Fellowship was awarded by Boeing, USA to Professor Prem Kalra. Dr. Ashok K Mittal received the Amity Best Global HR Faculty Award. Professors M R Madhav (Civil Engineering), A K Chaturvedi (Electrical Engineering), H S Mani (Physics), M K Harbola (Physics) have been honored with the Distinguished Teacher award of IIT Kanpur for the year 2007.

Research & Development

The Institute is engaged in providing meaningful education in engineering and science, while conducting original research of the highest standard. The research profile of the Institute is continually growing every year. During the year 2007-2008,
about 111 sponsored projects and 109 consultancy projects were undertaken by the faculty and research engineers/scientists of the Institute with the sanctioned amount of Rs. 4182 lakh and 663 lakh respectively.

Our faculty members have published research papers in reputed national and international journals. This year Dr. Animangsu Ghatak (Chemical) published a paper in *Science*, a journal that has an impact factor of 30. Faculty filed 15 patents in India and overseas. The Institute has signed several Memoranda of Understanding with Indian as well as international academic/research institutions and industries to strengthen its collaborative research efforts. Some of the organizations include: United Nations Development Program New Delhi; Tata Institute of Fundamental Research Mumbai; Tata Consultancy Ltd. Mumbai; Hindustan Petroleum Corporation Limited Mumbai; Center for Development of Advanced Computing (CDAC) Thiruvananthapuram; Shell Technology India Pvt. Ltd. Bangalore; Prasar Bharati; The Department of Scientific and Industrial Research; Intel Corporation; Santa Clara; Nemgenix Pty Ltd; The Procter & Gamble Co, Ohio; Deakin University; Geelong Victoria; Ecole Centrale Paris; The University of Nottingham; Keio University Japan; UNICEF; Bose Corporation, USA; Cromoz Inc. USA; IBM, New York; Autodesk Asia Pte. Ltd.

The Institute has signed a Memorandum of Understanding with Bharat Sanchar Nigam Limited (BSNL) for setting up the BSNL-IITK Telecom Centre of Excellence. The basic objective of the Centre is to provide and facilitate an environment for innovation and application oriented research in the field of Telecommunication and related areas. It will seek to address the technological needs of DoT, BSNL and other related industries.

The Institute has also entered into an MoU with Uttar Pradesh Power Transmission Corporation Ltd (UPPTCL) with the objective of accelerating the development of the transmission system in UP through appropriate application of science and technology. Such efforts would enable the State to utilize the scientific, technological and managerial resources of the Institute in introducing modern technology to accelerate its economic growth and also upgrade the technological skills of its personnel.

To devise concrete product prototypes using Nano Science and Technology, a unique interdisciplinary project funded by nanotechnology initiative of DST, has been undertaken at a current total outlay of 11 crore beginning January 2007. *Centre for Nanotechnology* at the Institute focuses on development of technologies based on the rapidly developing Nano Science. The focus is currently on 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 facilities for printing circuits with technologies will be installed.

The Institute has also entered into an MoU with the Archaeological Survey of India, to set up Centre for Archaeology and Cultural Resource Management. The Institute shall draw specific short and long term training programs for capacity building for officers of The Archaeological Survey of India in the application of modern technology in archaeology. Initially, the focus will be on Geoinformatics, CAD and Computer Applications in Archaeology and Archaeo-materials.

Mechanical engineering faculty has taken the lead in the joint IITK-ISRO program for developing and launching an indigenous Micro-Satellite. ISRO has provided the initiation grant for the project. The satellite is expected to weigh less than 10 kg and would be based on MEMS sensors and actuators. A similar initiative on designing a lunar rover is under discussion. The Department has also taken the lead in a consortium project on development of Electronic Stability Control Systems for automobiles under the Core group on Automotive Research (CAR) program of TIFAC. Other members of the consortium include IIT Bombay, TATA Motors, Mahindra & Mahindra, Ashok Leyland, and TCS.

Biological Sciences and Bioengineering Department (BSBE) has developed a disposable polymeric bioreactor for therapeutic protein production for medical applications and a cost effective cryogel filter for the purification of blood cells. It has also developed an RNAi-based technology to engineer plants for nematode resistance. The technology now being developed for a larger number of crop plants has received a World Bank research grant of 5.5 crore.

Department of Electrical Engineering has developed technologies for Low Cost Visual 3-D modeling with Texture Mapping for Small Objects ready for transfer; E-Signboard; a Device-free HCI for Interactive Public Annunciation System, and Language Independent Book Copying Machine with Search Features. Also technology was developed for working prototypes developed and tested using UHF RFIDds for automatic vehicle identification. Tags using ISO 18000B standard was tested on coaches for speeds up to 80 kmph. Tags and system employing EPC standard was developed and tested for speeds up to 50 kmph on trains and 150 kmph on automobiles respectively. Other technologies developed are IGBT Gate Drive Card with integrated short-circuit protection; power isolation; extremely small pulse-width capability and special measures to prevent nuisance tripping; UHF RFID tag antenna; Continuous Wireless
Monitoring of the Cervical Dilation during pregnancy; a Free Space Optics Based Identification and Interrogation System; and manufacturing functionally-graded wide-band polymeric composites for microwave absorbers. Also the Department has developed software for SCORM module developed in Brihaspati, Brihaspati sync - live lecture delivery tools completed; fingerprint separation s/w and GUI Interface; Audio separation s/w and GUI Interface; Image compression s/w and GUI Interface; Day ahead Auction software for power exchange; determination of V-I characteristics of a Shunt Inductor.

Chemical Engineering Department has developed a Higee separation and supportive ionic liquid catalysis technology along with adsorptive separation of mixtures.

Department of Physics has developed a microwave generated subcutoff multicusp plasma source for production of multi-elemental focused ion beams and a 3-D Monte Carlo simulation code for studying electron dynamics in gas in the presence of EM waves.

Some of the major sponsored projects undertaken by the Institute include those funded by Chevron-Texaco Inc USA; Shell-India; HPCL; AOR; IndoGulf Fertilizers-Jagdishpur; Transpek Silox-Vadodara. UKIERI research grant for modeling of gene network along with Indian Institute Toxicology Research Lucknow and University of Nottingham, UK and River dynamics and hazard assessment in the Himalayan foreland sponsored by UKIERI. Other projects include - Performance analysis and trading of wind power generation in emerging power system by Central Power Research Institute; Power Quality problem Analysis and recommended solutions by SAF Yeast Sandila; Quality assurance condition monitoring and fault diagnosis using Intelligent control methodologies by Technology Information; Forecasting and Assessment Council; E-Classroom Rollout in Science College of Chhattisgarh; Passive and active RFID location technology research by the Boeing Company, USA; National RFID Program by the Ministry of Communication and Information Technology; Small Antennas by Pico Mega Systems; Antenna for P-19 Radar; RF Propagation and radiation studies for WLAN system by Airtight Networks; Trans-receiver chip for the next generation of network in Telecommunication; Development of magnetic field sensors based on metallic multilayers with high magnetoresistive sensitivity; Development of magnetic field by Electrolyte Plasma; Exploiting crystallographic texture for improved nano-crystalline metal; and Electrochemical deposition technique for fabricating solar cells and IR Photodectors.

A few major consultancy projects received last year include: Hydrogeological investigations for assessment of quality and quantity of ground water funded by
Johnson Matthey (ICI); Hydrological and hydraulic studies of Bhutahi Balan and Kamla Balan river in the vicinity of the proposed bridge location in respect of unprecedented floods in the region of Muzaffarpur to Purnea Section funded by NHAI; Development of Power Sector in UP by Giri Institute of Development Studies for a Study Group formed by Planning Commission to prepare a road map for rapid economic development of UP; The Institutional Framework for Rural Energy Service from Renewables by Department of Economics; University of Cambridge, Cambridge (UK); Technology Development for Agricultural Extension and Outreach by National Agricultural Innovation Project; Power Metallurgical (P/M) Processing of High Density High Strength Aluminum Metal Matrix Composites by Schlumberger, USA; Feasibility Study for Establishing P/M Production Facility and Ferrous and Non-Ferrous Alloys by Raychem RPG, Mumbai; Yield improvement and inclusion removal from a slab casting tundish by JSW Torangallu; Reduction of tundish skull from a slab casting tundish by JSPL Raipur.

RESEARCH INFRASTRUCTURE DEVELOPMENT

The Institute is adding several major infrastructural facilities for carrying out multidisciplinary R&D activities. A Terrestrial Laser Scanner under the CARE scheme project was procured. ILRIS3D from Optech Inc., Canada was purchased at a cost of Rs. 55 Lakh and will be ready for use by the month of May 2008. This high density surveying instrument opens up several avenues for research and problem solving.

The Cascaded Dilatometer Facility procured under CARE scheme will be housed at the Materials Processing Laboratory (MPL) in the Advanced Centre for Materials Science. A dilatometer is employed for measuring in situ the instantaneous dimensional changes in compacts during various thermal cycles.

ICAP 6300 ICP Spectrometer was acquired under the CARE scheme. The use of Inductively Coupled Plasma source (ICP) and Atomic Absorption (AA) are the accepted and most powerful techniques for the analysis of and quantification of trace elements in both solid and liquid samples. Applications range from important environmental analyses to the materials industry, geological applications to clinical research and from the food industry to the semiconductor industry.

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 in teaching and research and is to be spent
exclusively for the said purpose. During 2007-2008, the Institute has received FIST grants to add special infrastructure facilities for research purposes. The Department of Chemical Engineering has been provided a total amount of Rs. 6 crore, while the Department of Chemistry has been provided a total amount of Rs. 4 crore.

The Department of Physics is installing a major facility for cross-disciplinary research, namely 1.7 MV Tandetron accelerator, with microprobe and heavy ion irradiation. Beam lines have been designed and fabricated for carrying out research in solid state materials and other cross disciplinary fields with a focus on development of futuristic technology. The facility is expected to be ready by mid June 2008. This is in addition to significant advances made in fabricating nanostructures with the newly established facility on Focused Ion Beam (FIB).

The Institute is also acquiring a new Liquid Helium Liquefier to enable low temperature based and high magnetic field research.

The Department of Physics is establishing a high performance computing facility (One Teraflop operations per second and 0.5 T Byte). This facility will help tackle challenging and complex numerical problems in computational astrophysics, turbulence and materials physics.

INTERNATIONAL COLLABORATIONS

The Institute has entered into MoUs with The Universita' Degli Studi Di Perugia; Deakin University, Victoria; Dan Kook University; University of Modena and Reggio Emilia (Italy); KEIO University; University of Ulster; Ecole Polytechnique, France; University of Nanyang Technological University, Singapore (NTUS); University of McMaster, Canada; Ritsumeikan University and Ritsumeikan Asia Pacific University. The objectives of these MoUs are promoting, strengthening and maintaining scientific and academic co-operation, exchange of faculty, students, and staff for the purposes of engineering research, and educational programs, sharing scientific instrumentation of common interest.

Kanpur International Academic Programme (KIAP) has been initiated by the Institute. KIAP is meant to exchange students between the Institute and universities abroad while bringing in an international flavor to faculty-driven research. Several universities have been invited to join the programme.
FINANCIAL RESOURCE MOBILIZATION

The Institute has had a satisfactory financial year during 2007-08. The total Grant-in-aid received during the financial year from MHRD, Govt. of India, under Non-Plan was Rs 74 crore and Rs 52 crore under Plan.

The last financial year has also been very successful for the fund raising activity at IIT Kanpur. The total amount of donations the Institute received was Rs 5.96 crore from 1017 donors as compared to Rs 5.40 crore contributed by 623 donors in the previous financial year. Many new Faculty chairs have been created for outstanding faculty members of the Institute by our alumni. Two chairs in the names of Professor N.C. Nigam and Professor C.V. Seshadri have been set up by their family, friends and admirers. Several new scholarships and awards have been instituted for students during the year. At present, the Institute has 33 faculty chairs. Priority is now to raise Research Fellowships for outstanding young faculty members with a view to make IITK more attractive to the new faculty.

Under *Annual Gift Program (AGP)*, the response was tremendous. The Institute has received donations of Rs. 56 lakhs contributed by 647 donors during 2007-08. Donations received under AGP have been utilized for supporting excellence in the Institute such as providing travel support to the students and faculty members for attending international conferences, cash award to students for publication of their research papers in reputed journals, travel support to international visiting faculty, filing of patents and for the Summer Undergraduate Research Grant for Excellence Program (SURGE).

Partial travel support to 58 students amounting to Rs. 19 lakhs was given to participate in International Conferences overseas. 171 students were awarded the cash award amounting to Rs. 19 lakhs for publishing their research papers in reputed journals. Faculty members and international visitors were provided travel support to attend conferences and visit the Institute.

SURGE Program was started in Summer 2006 to encourage undergraduate student research. SURGE’07 concluded very successfully. Ecole Centrale, Paris had joined the Program in SURGE’07 and, Ecole Polytechnique, France has signed an MoU to join this Program. The Institute is planning to expand the program in future to add a few more interested prestigious Institutions.

The Institute has now been successful in obtaining a Notification u/s 35(i) of the Income Tax Act from the Central Board of Direct Taxes, Ministry of Finance,
Government of India. Under this section, a person/organization who donates for scientific research to be conducted by the Institute faculty and its students is eligible for 125% tax exemption on the donated amount.

A project called *Opportunity College* was started from the financial year 2006-07. Under this program, unemployed youth in and around the campus are trained to help improve their employability. Three batches (each of 3 months duration) were conducted so far under this program, where about 100 students have been trained. In addition, one batch consisting of the Institute project employees was trained in English language skills. The faculty, students and staff of the Institute have extended their support to run the activities. The total expenditure during the year was Rs. 4 lakh and this was met from the donations received from the alumni and well wishers of the Institute.

Recently, the Institute has created a fund called *Contract Workers’ Welfare and Relief Fund* at the Dean of Resource Planning and Generation office. The Fund was created with an initial seed money of Rs. 10 lakhs provided by the Institute from its Non-plan budget. A sum of Rs. 0.6 lakh has so far been received as donation under the Contract Workers’ Welfare and Relief Fund. The fund aims to provide support for welfare of the contract labor working for the construction projects in the Institute.

**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.

The name of the Film Council was recently changed to Films and Media Council (FMC). Meander - students’ magazine, Vox Populi - students’ newspaper and Photography club were added to FMC.

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 which began as an event of the Students’ book club attained the status of a festival with improved participation from within the campus and also from outside. 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 for Men and Second for Women. There were 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. UDGHOSH, which acts as a match practice for the Inter IIT Sports Meet, also saw an increased participation both in terms of quality as well as quantity.

Adventure Club as its name depicts is the most vibrant club of the Institute. Year 2007-2008 was a year of new accomplishments in the field of adventure for IIT Kanpur, with an unprecedented participation of 55 students in various activities like Trekking, Tock Climbing and High Altitude Mountain Cycling. For the first time, a basic course in skiing was also organized for the new students. The Sports Council has come out with a new initiative of having a Skating Club. The aim of the club is to have regular skating sessions, participating in national skating competitions, encouraging skate hockey as a regular sport, and creating a skating rink on the campus.
Techkriti 2008 was a huge success in every sense of the word. It witnessed an audience of over 2000 external students during the festival itself and another 10000 more who participated through online contests. There were several new initiatives which included lectures delivered by international figures including a number of Nobel laureates.

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

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 newsletters and the students contribute significantly to these. The newsletter called Vox Populi continues to voice the concerns of the student community and encourages discussion and debate on several issues of interest to the student community. The GLDC – Gymkhana Lecture and Discussion Club, organized lectures by diverse and eminent personalities from various spheres of life, including one by Mr. R.K. Mishra, the winner of the Lead India Contest organized by the Times of India.

Students’ Counseling Service is the most active wing of the students. The activities of this Service include organizing the orientation programs 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 and 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 and Jeevan 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 program 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 in the coming years.

The Institute is fully geared to meet the infrastructural requirements for the year 2008-09 that an enhancement in student strength is likely to create. As of now, there are 10 halls of residence, eight for boys and two for girls. The total capacity of these halls is close to four thousand. However in view of the subsequent enhancement in the next two years, IIT Kanpur shall require at least three more halls of residence.

CLOSING REMARKS

Dear graduates, on this occasion of the fortieth convocation, I congratulate each one of you on your achievement. From today, you are on your own. As individuals you will choose the profession that excites you, that generates intellectual passion within yourself, and engages your mind in the best possible way. I fervently hope that you would be successful in your endeavors. Today, you will be going out of the protected environment of the Institute to find your place in the larger order of the society, which involves evaluating the needs of others and responding to the call for action.

Your talents would be reflected in your innovative application of science and technology. Your authentic utilization of knowledge in service to the community will benefit not only our country, but will leave a civilizational impact.

Graduates, you have the responsibility of changing this world into a better place to live in. You are supremely qualified to bring about this transformation given your training, passion, knowledge, and determination. Innovate, create and forge ahead. As leaders, you should continually strive to usher in a revolution of quality in both professional and social domains. Always look for ways and means to help your countrymen. Discover your own mantra to create wealth for the benefit of the human society. With your personal standards of excellence, you are ready to evolve just policies that would leave no community or race behind. Simply put, if you cannot break the chain of poverty nobody else will be able to!

Dear Graduates of 2008, I admire you for your fine accomplishments during your stay at IIT Kanpur. My sincere good wishes for the work you aspire to do in the future. I earnestly believe that it is you who will light the lamp for the new world that will be thoughtful, just, and caring.
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

Chairman
Shri Arjun Singh
Minister of Human Resource Development
New Delhi – 110 001

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

Shri Sanjeev Goenka
Chairman, Board of Governors
IIT Kharagpur

Dr. Anil Kakodkar
Chairman, Board of Governors
IIT Bombay

Prof. A.E. Muthunayagam
Chairman, Board of Governors
IIT Madras

Prof. M Anandakrishnan
Chairman, Board of Governors
IIT Kanpur
Prof. V S Ramamurthy  
Chairman, Board of Governors  
IIT Delhi  

Shri Jaiprakash Gaur  
Chairman, Board of Governors  
IIT Roorkee  

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Indian Institute of Science Bangalore  
Bangalore
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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
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IP Estate
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Eminent Scientist
& Chairman, Scientific Advisory Council to the Prime Minister
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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

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Director
Chennai Mathematical Institute, Chennai
Plot H1, SIPCOT IT Park
Padur PO, Siruseri
Prof. Sabyasachi Bhattacharya  
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Tata Institute of Fundamental Research  
Homi Bhabha Road,  
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Dr. Kota Harinarayan  
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Research Council of Central Scientific Instrument Organization  
Raja Ramanna Fellow  
National Aero Space Laboratories  
PO Box 1779,  
Bangalore

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

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Member of Parliament (Lok Sabha)  
65, Lodhi Estate  
New Delhi

Shri Ananta Nayak  
Member of Parliament (Lok Sabha)  
180, South Avenue  
New Delhi

Shri B J Panda  
Member of Parliament (Rajya Sabha)  
2, Mahadev Road,  
New Delhi
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

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Adyar, Chennai - 600 020
Tamil Nadu

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Allahabad University
Allahabad (from 13.04.2007)

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Former Vice Chancellor, Roorkee University &
Former Director, CRRI,
Sunbreeze Apartments, 1002
Towr-‘B’, Vaishali
Ghaziabad – 201 010 (from 13.04.2007)

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122, Malcha Marg
Chanakyapuri
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Government of India  
Department of Secondary Education & Higher Education  
Ministry of Human Resource Development  
Shastri Bhawan  
New Delhi - 110 001

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

[From 05.10.2006]  
[Upto 30.08.2007]

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

[From 31.08.2007]

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Chhatrapati Shahuji Maharaj University  
Kanpur - 208 024

[Upto 27.11.2007]

Professor R S Nirjar  
Vice Chancellor  
Ambedkar University  
Gautam Buddha Nagar  
Greater Noida

[From 28.11.2007]

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Joint Secretary, Information Technology  
& Chief Executive Officer, CHIPS  
Government of Chhattisgarh  
Department of Commerce & Industry (Information Technology)  
Das Bhawan  
Mantralaya, Raipur, Chhattisgarh
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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 (Upto 31.12.2007)

Professor Ajai Jain
Dept. of Computer Science & Engineering
Indian Institute of Technology Kanpur
Kanpur – 208 016 (From 01.01.2008)

Professor Jitendra Kumar
Department of Materials Science Programme
Indian Insitute of Technology Kanpur
Kanpur - 208 016 (Upto 31.12.2007)

Professor Manoj K Harbola
Department of Physics
Indian Institute of Technology Kanur
Kanpur – 208 016 (From 01.01.2008)

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

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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

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Professor Sanjay G. Dhande
Director
Indian Institute of Technology Kanpur
Kanpur 208016
Secretary
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Indian Institute of Technology Kanpur
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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 (Upto 31.12.2007)

Professor Ajai Kumar Jain
Department of Computer Science & Engineering
Indian Institute of Technology Kanpur
Kanpur – 208016 (From 01.01.2008)

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 Insitute of Technology Kanpur  
Kanpur - 208 016
SENATE
[From 01.04.2007 to 31.03.2008]

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Professor Sanjay G. Dhande
Director
Indian Institute of Technology Kanpur
Kanpur 208016

Deputy Director
Prof. Kripa Shanker

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Prof. Vijay 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
Prof. Ashish Tewari : From 31.12.2007

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Dr. Dhirendra S Katti, ASP : From 01.12.2007
CHEMICAL ENGINEERING (CHE)
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Prof. J N Moorthy  
Prof. Sandeep Verma

From 31.12.2007  
From 01.12.2007  
From 31.12.2007  
From 31.12.2007
CIVIL ENGINEERING (CE)

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Prof. PK Basudhar
Prof. Sudhir K Jain
Prof. Sarvesh Chandra
Prof. Bithin Datta
Prof. Vinod Tare
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Prof. Vinay Kumar Gupta
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Prof. Mukesh Sharma
Prof. Onkar Dikshit
Prof. Partha Chakroborty
Prof. Rajiv Sinha
Prof. Sudhir Misra : From 31.12.2007
Prof. Rajesh Srivastava : From 31.12.2007
Prof. Purnendu Bose : From 31.12.2007
Dr. Bharat Lohani, AP : Upto 30.11.2007
Dr. Amit Prashant, AP : From 01.12.2007

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Prof. Joseph John
Prof. Pradip Sircar
Prof. Animesh Biswas
Prof. A K Chaturvedi
Prof. Baquer Mazhari

Prof. R.K. Bansal : From 08.02.2008
Prof. S Umesh : From 08.02.2008
Prof. S.N. Singh : From 08.02.2008
Prof. Shyama P Das : From 08.02.2008
Prof. Ravindra Arora Emeritus Fellow from 01.07.06 to 31.07.2008
Prof. GC Ray Emeritus Fellow from 01.07.06 to 31.07.2008

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Prof. AK Sharma
Prof. AK Sinha
Prof. KK Saxena
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Prof. Binay Kumar Pattnaik
Prof. G Neelakantan
Prof. Achla Misri Raina
Prof. Surajit Sinha
Prof. (Ms) Shikha Dixit
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
Prof. Rahul Varman
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Prof. Monica Katiyar
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Prof. Shobha Madan  
Prof. Debasis Kundu  
Prof. Pravir Kumar Dutt  
Prof. Neeraj Misra  
Prof. P Shunmugaraj, ASP  
Prof. Dhirendra Bahuguna : From 31.12.2007  
Prof. P Shunmugaraj : From 31.12.2007  
Prof. Arbind Kumar Lal : From 31.12.2007  
Prof. UB Tewari Emeritus Professor from 01.07.06 to 30.06.2009  
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Prof. BN Banerjee  
Prof. MS Kalra  
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Prof. PM Dixit  
Prof. K Muralidhar  
Prof. Gautam Biswas  
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Prof. S.K. Choudhury  
Prof. N.S. Vyas  
Prof. Vinayak Eswaran  
Prof. Kalyanmoy Deb  
Prof. P.S. Ghoshdastidar  
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Dr. Sameer Khandekar, AP : Upto 30.11.2007  
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Prof. Jitendra Kumar

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Prof. SD Joglekar  
Prof. Keshawa Shahi  
Prof. Rajendra Prasad  
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Prof. RC Budhani  
Prof. Y.N. Mohapatra  
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Prof. Manoj K Harbola  
Prof. Satyendra Kumar  
Prof. V Ravishankar  
Prof. Pankaj Jain  
Prof. HC Verma  
Dr. Sreerup Raychaudhuri, ASP  :  Upto 30.11.2007

LASER TECHNOLOGY PROGRAM (LTP)

Prof. RK Thareja

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Secretary Senate : Shri Sanjeev S. Kashkar

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Allahabad
Shri N C Agarwal  
General Manager  
Hindustan Aeronautics Ltd. (H.A.L.),  
Indira Nagar  
Lucknow - 226016

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Director  
Indian Institute of Pulses Research (IIPR)  
Kanpur-208024

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[01.10.2006 TO 30.09.2007]

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       3. Chairman, SUGC: Prof. Dheeraj Sanghi, CSE

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       2. Dr. Aloke Dutta, EE
       3. Dr. R C Budhani, PHY

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       1. Mr. Cherian Varkey Mathew (Y4129) cherian@iitk.ac.in
       2. Mr. Dhiraj Kumar Mahajan (Y250561) dhiraj@iitk.ac.in

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   SENATE NOMINEES:

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2. Dr. Debasis Kundu, MTH & STAT
3. Dr. B V Phani, IME : Chairman

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Librarian : Shri Rajeshwar Mishra

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2. Dr. P S Ghoshdastidar, ME
3. Dr. K Srihari, CHM
4. Dr. Sanker Ramakrishnan, BSBE

(c) NOMINEES OF DEPARTMENTS/PROGRAMMES :
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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
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. Dr. 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
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(b) SENATE NOMINEE:

Dr. Rajiv Sinha, CE

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2. Dr. Dhirendra S Katti  BSBE
3. Dr. Nishith Verma  CHE
4. Dr. S Verma  CHM
5. Dr. Pranab K Mohapatra  CE
6. Dr. Avinash Agarwal  EEMP
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15. Dr. I D Dharial  MTH & STAT  : Chairman
16. Dr. P Munshi  NET
17. Dr. V Subrahmanyam  PHY
18. Dr. Satyaki Roy (HSS)  M DES

(d) STUDENTS’ SENATE NOMINEES:

1. Mr. V Sathyaraj (Y210063)  sathy@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   CHM : Upto 30.09.2006

(b) SENATE NOMINEES:

1. Dr. D Kunzru, CHE :Chairman
2. Dr. M K Kadalbajoo, MTH & STAT
3. Dr. Kamal Poddar, AE

(6) SENATE SCHOLARSHIPS & PRIZES COMMITTEE:

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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):

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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 VarmanIME
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

THREE NOMINEES OF THE CHAIRMAN, BOARD OF GOVERNORS
(From 01.11.2007 to 31.10.2008)

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

Prof. V K Suri
Vice-Chancellor
C S Azad University of Agri.& Tech.
Nawabganj
Kanpur-208002

Prof. R P Singh
Department of Oil and Paint
Harcourt Butler Technological Institute (HBTI)
Nawabganj
Kanpur-208002

SENATE STANDING COMMITTEES:
[01.10.2007 TO 30.09.2008]

(1) SENATE EDUCATIONAL POLICY COMMITTEE [SEPC]:

(a) MEMBERS (EX-OFFICIO):

1. Chairman, Senate : Chairman
2. Chairman, SPGC
3. Chairman, SUGC
(b) **SENATE NOMINEES**:

1. Dr. Dayanand Yadav  
   AE  
2. Dr. Ashok Khanna  
   CHE  
3. Dr. Vinod K Singh  
   CHM  

(c) **STUDENTS’ SENATE NOMINEES**:

1. Cherian V Methew  
   (Y4129)  
2. Manu Bansal  
   (Y3167175)  

(2) **SENATE ELECTIONS COMMITTEE [SEC]**:

**SENATE NOMINEES**:

1. Dr. B D Gupta  
   CHM  : Chairman  
2. Dr. Dipak Mazumdar  
   MME  
3. Dr. Pankaj Jain  
   PHY  

(3) **SENATE LIBRARY COMMITTEE [SLC]**:

(a) **LIBRARY**:

Librarian : Shri Rajeshwar Mishra  

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   PHY  
2. Dr. K Srihari  
   CHM  
3. Dr. Rajiv Sinha  
   CE  
4. Dr. R Sankararamakrishnan  
   BSBE  

(c) **NOMINEES OF DEPARTMENTS/PROGRAMMES**:

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   AE  
2. Dr. K Subramaniam  
   BSBE  
3. Dr. Sanjeev Garg  
   CHE  
4. Dr. Jitendra K Bera  
   CHM
5. Dr. S K Chakrabarti  
   (Chairman)  
6. Dr. Purnendru Bose  
7. Dr. T V Prabhakar  
8. Dr. P Sircar  
9. Dr. Satyaki Roy  
10. Dr. A K Mittal  
11. Dr. Y N Singh  
12. Dr. P K Panigrahi  
13. Dr. Anish Upadhyaya  
14. Dr. Jitendra Kumar  
15. Dr. Shobha Madan  
16. Dr. P K Panigrahi  
17. Dr. Srerup Raychaudhuri  
18. Ms. Koumudi Prakash Patil (HSS)  

(d) STUDENTS’ SENATE NOMINEES :

1. C Saipriyadarshan (Y5149)
2. Ashish Agarwal (Y6113)

(4) SENATE POST-GRADUATE COMMITTEE [SPGC]:

(a) MEMBER (EX-OFFICIO) :

Dr. I D Dhariyal  
MTH & STATS : Outgoing Chairman

(b) SENATE NOMINEE :

Dr. V K Gupta  
(Chairman)

(c) NOMINEES OF DEPARTMENTS/PROGRAMMES :

1. Dr. C S Upadhyay  
2. Dr. Dhirendra S Katti  
3. Dr. Nishith Verma  
4. Dr. M L N Rao  
5. Dr. Pranab K Mohapatra  
6. Dr. Avinash Agarwal  
7. Dr. Shashank K Mehta  
8. Dr. S Umesh  
9. Dr. A M Raina  

38
10. Dr. Anoop Singh    IME
11. Dr. Debabrata Gowami   LTP
12. Dr. V Eswaran  ME
13. Dr. D Mazumdar     MME
14. Dr. Rajeev Gupta   MSP
15. Dr. Manjul Gupta  MTH & STAT
16. Dr. P Munshi      NET
17. Dr. Avinash Singh  PHY
18. Dr. Satyaki Roy   M DES

(d) STUDENTS’ SENATE NOMINEES :

1. Ankur Verma        (Y5102063)
2. G Naresh Kumar    (Y6114004)
3. Priyanka Dash      (Y6106008)
4. K Sudheendra Rao    (Y5209864)

(5) SENATE RULES COMMITTEE [SRC]:

(a) MEMBER (EX-OFFICIO) :

Parliamentarian of the Senate :

Dr. N K Sharma, IME  : Upto 30.09.2007

(b) SENATE NOMINEES :

1. Dr. M K Kadalbajoo  MTH & STATS
2. Dr. Shafi Qureshi    EE
3. Dr. B K Pattnaik    HSS  : Chairman

(6) SENATE SCHOLARSHIPS & PRIZES COMMITTEE [SSPC]:

(a) MEMBERS (EX-OFFICIO):

Head Institute Counselling Service  : Dr. Goutam Deo, CHE
Chairman, APEC                   : Dr. Purnendu Bose, CE
Dean of Students’ Affairs   : Dr. Prawal Sinha, MTH & STAT
(b) SENATE NOMINEES:

1. Dr. B Deo MME
2. Dr. Anish Upadhyay MME
3. Dr. S K Agarwal CSE
4. Dr. A Mitra MTH & STATS : Chairman

(c) STUDENTS' SENATE NOMINEES:

1. Adarsh Behra (Y6030)
2. Piyush Agrawal (Y3167218)
3. Chirag Mittal (Y3167100)

(7) SENATE STUDENTS' AFFAIRS COMMITTEE [S-SAC]:

(a) MEMBERS (EX-OFFICIO):

Head Institute Counselling Service : Dr. Goutam Deo, CHE
Chairman, APEC : Dr. Purnendu Bose, CE
Representative of COW : Dr. A K Chaturvedi, EE
Dean of Students' Affairs : Chairman, Ex-Officio

(b) SENATE NOMINEES:

1. Dr. P S Ghoshdastidar ME
2. Dr. Asima Pradhan PHY
3. Dr. Rajat Moona CSE

(c) STUDENTS' SENATE NOMINEES:

1. Arvind Kothari (Y4096)
2. Ankur Verma (Y5102063)
3. Chirag Mittal (Y3167100)
4. Ramnik Arora (Y5365)

(8) SENATE UNDERGRADUATE COMMITTEE [SUGC]:

(a) MEMBER (EX-OFFICIO):

Dr. Dheeraj Sanghi, CSE : Outgoing Chairman
(b) **SENATE NOMINEE:**

1. Dr. A K Chaturvedi EE

(c) **NOMINEES OF DEPARTMENTS/PROGRAMMES:**

1. Dr. D Das AE
2. Dr. Anupam Pal BSBE
3. Dr. Yogesh M Joshi CHE
4. Dr. M K Ghorai CHM
5. Dr. Rajesh Srivastava CE
6. Dr. Purnendu Bose EEMP
7. Dr. Dheeraj Sanghi CSE
8. Dr. Animesh Biswas EE
9. Dr. Suchitra Mathur HSS
10. Dr. Runa Sarkar IME
11. Dr. H Wanare LTP
12. Dr. P S Ghoshdastidar ME : Chairman
13. Dr. B Deo MME
14. Dr. Kamal K Kar MSP
15. Dr. A K Lal MTH & STAT
16. Dr. P Munshi NET
17. Dr. Anjan Kumar Gupta PHY
18. Dr. Bishakh Bhattacharya M DES

(d) **STUDENTS’ SENATE NOMINEES:**

1. Ashish Agarwal (Y6113)
2. Chirag Mittal (Y3167100)
3. B Shubham Gupta (Y4424)
4. C Saipriyadarshan (Y5149)
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, 2008 was 315. Out of these 20 are shared by two departments on a half time basis. There were also 40 Academic staff comprising of Research Engineers/Scientific Officers/Design Engineers and Library staff, who are treated at par with faculty, on March 31, 2008. 19 faculty members and 04 academic staff retired/voluntary retired/resigned during the period. The Institute also had a number of Visiting Faculty members: 9 Visiting Faculty joined during the year. The Visiting/Adjunct Faculty contribute significantly and they also get an opportunity to know the Institute.

AEROSPACE ENGINEERING DEPARTMENT

SANCTIONED STRENGTH : 20

EXISTING STRENGTH : 17+1

<table>
<thead>
<tr>
<th>PROFESSOR (Rs.18400-500-22400)</th>
</tr>
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<tbody>
<tr>
<td>1. 3162 Vijay Gupta</td>
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<tr>
<td>2. 3159 K Ghosh</td>
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<td>3. 1798 R K Sullerey</td>
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<td>4. 4041 Dayanand Yadav</td>
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<td>5. 4458 E Rathakrishnan</td>
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<td>10. 4696 Sanjay Mittal</td>
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<td>11. 4660 Ashish Tewari</td>
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<td>12. 4709 A K Ghosh</td>
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ASSOCIATE PROFESSOR (Rs.16400-450-20000)

1. 4785 C S Upadhyay
2.  4733  D P Mishra

ASSISTANT PROFESSOR  (Rs.12000-420-18300)

1.  4958  Abhijit Kushari
2.  4993  Debopam Das
3.  5129*  Sivasambu Mahesh
4.  5280  Brijesh Eshpunyani

BIOLOGICAL SCIENCE & BIO-ENGINEERING          SANTIONED
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
6.  5103  Dhirendra S Katti

ASSISTANT PROFESSOR  (Rs.12000-420-18300)

1.  5194  Anupam Pal
2.  5206  Amitabha Bandyopadhyay
3.  5207  (Ms) Jonaki Sen

CHEMICAL ENGINEERING DEPARTMENT  SANTIONED
STRENGTH : 32
EXISTING STRENGTH : 18

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
10. 4794  Nishith Verma

ASSOCIATE PROFESSOR  (Rs.16400-450-20000)

1. 5011  V Shankar
2. 5016  Nitin Kaistha
3. 5196  Siddharta Panda

ASSISTANT PROFESSOR    (Rs.12000-420-18300)

1. 5021  Sanjeev Garg
2. 5106  Animangsu Ghatak
3. 5114  Yogesh Moreshwar Joshi
4. 5175  Jayant K Singh
5. 5208  Pankaj K Apte

CHEMISTRY DEPARTMENT

SANCTIONED STRENGTH : 30
EXISTING STRENGTH  : 28

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
Civil Engineering Department

Sanctioned 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. 4586 V K Gupta
8. 4464 S K Chakrabarti
9. 4799 Mukesh Sharma
10. 4657 C V R Murty
11. 4662 Onkar Dikshit
12. 4663 Partha Chakroborty
13. 4695 Rajiv Sinha
14. 4690 Sudhir Misra
15. 4798 Rajesh Srivastava
16. 4775 Purnendu Bose

ASSOCIATE PROFESSOR  (Rs.16400-450-20000)

1. 4784 Soumyen Guha
2. 4793 Ashu Jain
3. 4995 Durgesh C Rai
4. 4871 Animesh Das
5. 4978 Javed N Malik
6. 5026 Bharat Lohani
7. 5057 Sachidanand Tripathi
8. 5079 Pranab Kumar Mohapatra

ASSISTANT PROFESSOR  (Rs.12000-420-18300)

1. 5152 Amit Prashant
2. 5037 Nihar Ranjan Patra
3. 5192 Tarun Gupta
4. 5230 Priyanka Ghosh

COMPUTER SCIENCE & ENGINEERING  
SANTIONED STRENGTH : 18

EXISTING STRENGTH :

20 + 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. 4934 Anil Seth

ASSISTANT PROFESSOR  (Rs.12000-420-18300)

1. 5112 Mainak Chaudhuri
2. 5197 Surender Baswana
3. 5222 Peeyush P Kurur
4. 5268 Arnab Bhattacharya

ELECTRICAL ENGINEERING  SANCTIONED
STRENGTH : 53
EXISTING STRENGTH  : 28 +

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

1. *3541 R M K Sinha
2. 3927 Avinash Joshi
3. 4326 M Sachidananda
4. 4495 S C Srivastava
5. 4667 Anjan Kumar Ghosh
6. 4486 Prem Kumar Kalra
7. 4691 Shafi Qureshi
8. 3873 (Ms) Sumana Gupta
9. 4372 Govind Sharma
10. 4687 Utpal Das
11. 4566 A K Dutta
12. 3999 Joseph John
13. 4652 Animesh Biswas
14. 4478 Pradip Sircar
15. 4670 Baquer Mazhari
16. 4827 A K Chaturvedi
17. 4489 R K Bansal
18. 4745 S Umesh
19. 5003 S N Singh
20. 4776 Shyama P Das

ASSOCIATE PROFESSOR (Rs.16400-450-20000)

1. 4771 Yatindra N Singh
2. 4988 Laxmidhar Behera
3. 4833 K S Venkatesh
4. 4938 K Vasudevan
5. 5013 A R Harish
6. 5113 S Sunder Kumar Iyer

ASSISTANT PROFESSOR (Rs.12000-420-18300)

1. 5012 Parthasarathi Sensarma
2. 5015 (Ms) Nandini Gupta
3. 5111 Adrish Banerjee
4. 5162 Ramprasad Potluri

HUMANITIES & SOCIAL SCIENCES

SANCTIONED STRENGTH : 31
EXISTING STRENGTH : 24+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
11. 4702 (Ms) Shikha Dixit

ASSOCIATE PROFESSOR  (Rs.16400-450-20000)

1. 4773 Munmun Jha
2. 4774 C A Tomy
3. 4957 (Ms) Suchitra Mathur
4. 5076 T Ravichandran

ASSISTANT PROFESSOR  (Rs.12000-420-18300)

1. 4927 (Ms) Mini Chandran
2. 5075 P M Prasad
3. 5078 Sanjay Kumar Singh
4. 5077 Amman Madan
5. 5181 Braj Bhusan
6. *4976 Satyaki Roy
7. 5231 Kumar Ravi Priya
8. 5270 Sarani Saha

LECTURER  (Rs.10000-325-15200)

1. *5183 (Ms) Koumudi Prakash Patil
2. 5237 A V Ravi Shankar Sarma
3. 5287 Anindita Chakrabarti

INDUSTRIAL & MANAGEMENT ENGINEERING

SANCTIONED STRENGTH : 18
EXISTING STRENGTH : 14

PROFESSOR  (Rs.18400-500-22400)

1. 3432 A K Mittal
2. 3977 N K Sharma
3. 3792 Kripa Shanker
4. 4042 Arun P Sinha
5. 4525 R R K Sharma
6. 4961 Jayanta Chatterjee
7. 4701 Rahul Varman

ASSOCIATE PROFESSOR (Rs.16400-450-20000)
1. 4830 Sanjeev Swami
2. 4865 (Ms) Veena Bansal

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

MATERIALS & METALLURGICAL ENGINEERING
SANTIONED STRENGTH : 32
EXISTING STRENGTH : 20

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
2. 4977 Bikaramjit Basu

ASSISTANT PROFESSOR (Rs.12000-420-18300)

1. 5034 Ashish Garg
2. 5072 Gauthama
3. 5269 Kallol Mondal.
4. 5273 Krishanu Biswas
5. 5289 Anandh Subramaniam

MATHEMATICS & STATISTICS DEPARTMENT

SANTIONED STRENGTH : 36
EXISTING STRENGTH : 33

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
13. 4707 B V Rathish Kumar
14. 4782 D Bahuguna
15. 4656 P Shunmugaraj
16. 4734 Arbind Kumar Lal

ASSOCIATE PROFESSOR (Rs.16400-450-20000)

1. 4803 Alok Kumar Maloo
2. 4781 (Ms) Mohua Banerjee
3. 4822  G Santhanam
4.  4832  (Mrs) Rama Rawat
5.  4870  S Ghorai
6.  5029  Joydeep Dutta
7.  5153  Amit Mitra

ASSISTANT PROFESSOR  (Rs.12000-420-18300)

1.  4537  (Ms) Aparna Dar
2.  4930  Swagato Kumar Ray
3.  5036  Shalabh
4.  5121  (Ms) Nandini Nilakantan
5.  5189  Parasar Mohanty
6.  5200  Anil Kumar Ghosh
7.  5229  Sharmistha Mitra
8.  5235  Sudipta Dutta
9.  5291  Malay Banerjee

LECTURER  (Rs.10000-325-15200)

1.  5128  Shital Rajeshbhai Patel

MECHANICAL ENGINEERING  

SANTIONED STRENGTH : 42
EXISTING STRENGTH : 33 + 2 HT

PROFESSOR  (Rs.18400-500-22400)

1.  2265  A K Mallik
2.  *3858  S G Dhande
3.  3759  B N Banerjee
4.  3862  M S Kalra
5.  4093  V K Jain
6.  4224  N N Kishore
7.  4286  Himanshu Hatwal
8.  4210  P M Dixit
9.  4398  K Muralishar
10.  4560  Gautam Biswas
11.  4061  Prabhat Munshi
12.  4810  B P Pundir
13.  4452  S K Choudhury
<table>
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<td>14. 4459</td>
<td>N S Vyas</td>
</tr>
<tr>
<td>15. 4482</td>
<td>Vinayak Eswaran</td>
</tr>
<tr>
<td>16. 4650</td>
<td>Kalyanmoy Deb</td>
</tr>
<tr>
<td>17. 4288</td>
<td>P S Ghoshdastidar</td>
</tr>
<tr>
<td>18. 4788</td>
<td>Subrata Sarkar</td>
</tr>
<tr>
<td>19. 4801</td>
<td>P K Panigrahi</td>
</tr>
</tbody>
</table>

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

1. 4779 Bhaskar Dasgupta  
2. 4823 V Venkata Reddy  
3. 4890 Bishakh Bhattacharya  
4. 4931 Avinash Kumar Agarwal  
5. 5014 Sumit Basu  
6. 4928 Kamal K Kar  
7. 5022 Ashish Datta  
8. 5054 P Venkitanarayanan  

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

1. 4956 Anupam Saxena  
2. 5074 J Ramkumar  
3. 5120 Sameer Khandekar  
4. 5122 Arun Kumar Saha  
5. *5129 Sivasambu Mahesh  
6. 5199 Ishan Sharma  
7. 5234 Shantanu Bhattacharya  
8. 5267 Basant Lal Sharma  

**PHYSICS**

**SANCTIONED STRENGTH : 38**

**EXISTING STRENGTH : 31 + 4 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
5. 4755 V Subrahmanyam
6. 4797 Gautam Sengupta
7. 5040 S Anantha Ramakrishna
8. 5041 Amit Dutta
9. 5117 Satyajit Banerjee

ASSISTANT PROFESSOR  (Rs.12000-420-18300)

1. 4893 Harshwardhan Wanare
2. 4964 V V Sreedhar
3. 5028 (Ms) Sutapa Mukherjee
4. 5046 Anjan Kumar Gupta
5. 5102 Zakir Hossain
6. 5115 Tapobrata Sarkar
7. 5123 Sudeep Bhattacharjee
8. *5167 Rajeev Gupta
9. 5284 Tarun Kanti Ghosh
10. 5290 Kaushik Bhattacharya

LECTURER  (Rs.10000-325-15200)

1. 5275 S Dhamodaran

MATERIALS SCIENCE PROGRAMME  SANTIONED STRENGTH : 06
EXISTING STRENGTH : 01 + 3 HT

PROFESSOR (Rs.18400-500-22400)
1. 3762 Jitendra Kumar
2. *4064 Keshawa Shahi
3. *4559 Y N Mohapatra

ASSISTANT PROFESSOR (Rs.12000-420-18300)
1. *5167 Rajeev Gupta

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

SANCTIONED STRENGTH:
EXISTING STRENGTH : --

PROFESSOR (Rs.18400-500-22400)

--

DESIGN PROGRAMME

SANCTIONED 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**

<table>
<thead>
<tr>
<th>Sl No.</th>
<th>Name &amp; Designation</th>
<th>Department/ Programme</th>
</tr>
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<tbody>
<tr>
<td>1. 4983</td>
<td>Alok Gupta, Research Engineer Gr-I</td>
<td>A E</td>
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<td>2. 5279</td>
<td>Vibha Trapathi, Research Engineer Gr-I</td>
<td>E E</td>
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<td>3. 4616</td>
<td>Sushmit Sen, Senior Research Engineer</td>
<td>Robotics</td>
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<td>4. 4824</td>
<td>Anjali V Kulkarni, Senior Research Engineer</td>
<td>Mechatronics</td>
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<td>5. 5118</td>
<td>Ajay Misra, Senior Research Engineer</td>
<td>A E</td>
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<td>6. 4078</td>
<td>Chaturi Singh, Senior Research Engineer</td>
<td>NWTF</td>
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<td>Neeru Chhabra, Senior Research Engineer</td>
<td>E E</td>
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<td>Amitabha Roy, Principal Research Engineer</td>
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<td>Vishal Saxena, Principal Research Engineer</td>
<td>E E</td>
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<td>10. 4807</td>
<td>Brajesh Chandra, Principal Research Engineer</td>
<td>A E (NWTF)</td>
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<td>V Raghuram, Principal Research Engineer</td>
<td>M E</td>
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<td>Rajeev Gupta, Principal Research Engineer</td>
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<td>Raghuvir Singh Anand, Principal Research Engineer</td>
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<td>Aurobinda Chatterjee, Principal Research Engineer</td>
<td>M E</td>
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<td>15. 4015</td>
<td>A L Bhavsar, Scientific Officer Gr.I</td>
<td>CHEM</td>
</tr>
<tr>
<td>16. 4815</td>
<td>K K Bajpai, Senior Scientific Officer</td>
<td>C E</td>
</tr>
<tr>
<td>17. 3780</td>
<td>Sanjay Gupta, Chief Scientific Officer</td>
<td>ACMS</td>
</tr>
<tr>
<td>18. 3985</td>
<td>Bansi Lal, Chief Scientific Officer</td>
<td>PHY/LTP</td>
</tr>
<tr>
<td>19. 4090</td>
<td>Prem Chand, Chief Scientific Officer</td>
<td>EPR/PHY</td>
</tr>
<tr>
<td>20. 3782</td>
<td>K V Rao, Chief Scientific Officer</td>
<td>ACMS</td>
</tr>
<tr>
<td>21. 2028</td>
<td>H P S Parihar, Computer Engineer Gr.II</td>
<td>C C</td>
</tr>
<tr>
<td>22. 5285</td>
<td>Saikat Kira, Computer Engineer Gr II</td>
<td>C C</td>
</tr>
<tr>
<td>23. 4578</td>
<td>Md Aftab Alam, Senior Computer Engineer</td>
<td>C C</td>
</tr>
<tr>
<td>24. 4821</td>
<td>Brajesh Pande, Senior Computer Engineer</td>
<td>C C</td>
</tr>
<tr>
<td>25. 4820</td>
<td>Gopesh Tewari, Senior Computer Engineer</td>
<td>C C</td>
</tr>
<tr>
<td>26. 5019</td>
<td>Soma Sengupta, Senior Computer Engineer</td>
<td>C C</td>
</tr>
<tr>
<td>27. 4721</td>
<td>Md K Ahmad, Senior Computer Engineer</td>
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</tr>
<tr>
<td>28. 4920</td>
<td>Anju Tewari, Senior Computer Engineer</td>
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</tr>
<tr>
<td>29. 2035</td>
<td>N P Roberts, Principal Computer Engineer</td>
<td>C C</td>
</tr>
<tr>
<td>30. 3868</td>
<td>K S Singh, Principal Computer Engineer</td>
<td>C C</td>
</tr>
<tr>
<td>31. 2037</td>
<td>Y D S Arya, Principal Computer Engineer</td>
<td>C C</td>
</tr>
<tr>
<td>No.</td>
<td>Code</td>
<td>Name</td>
</tr>
<tr>
<td>-----</td>
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<tr>
<td>32</td>
<td>4817</td>
<td>Navpreet Singh</td>
</tr>
<tr>
<td>33</td>
<td>4541</td>
<td>B M Shukla</td>
</tr>
<tr>
<td>34</td>
<td>5030</td>
<td>Vipul Mathur</td>
</tr>
<tr>
<td>35</td>
<td>0834</td>
<td>Rajeshwar Misra</td>
</tr>
<tr>
<td>36</td>
<td>3981</td>
<td>S K Bose</td>
</tr>
<tr>
<td>37</td>
<td>3969</td>
<td>Umed Singh</td>
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<tr>
<td>38</td>
<td>3974</td>
<td>(Ms) Neelam Prasad</td>
</tr>
<tr>
<td>39</td>
<td>5148</td>
<td>S K Vijaianand</td>
</tr>
<tr>
<td>40</td>
<td>5157</td>
<td>(Ms) Maitrayee Mondal Ghosh</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 the following:

To prepare 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 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, Biological Sciences & Bio Engg., 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 entrance 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 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, 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.) exist in all the engineering departments and two interdisciplinary programmes, namely, Materials Science and Nuclear Engineering & Technology. 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

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. Aloke 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 our Hon’ble Prime Minister is himself an eminent economist.
Today’s India needs trained minds that perfectly 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, Mechanical Engineering etc. 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 to 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 across 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 areas of engineering and biological sciences to 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 (PDPMIIITDM), 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 advanced Master’s students in both countries by 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 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 a 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 2007-2008 were made by the Joint Admission Committee for all IITs and IT-BHU.

The Joint Entrance Examination (JEE) -2007 was held on April 08, 2007. 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></td>
<td>JEE-2007</td>
</tr>
<tr>
<td></td>
<td>Gen SC ST PH SC ST</td>
</tr>
<tr>
<td>B.Tech.</td>
<td></td>
</tr>
<tr>
<td>Aerospace Engg.</td>
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</tr>
<tr>
<td>BSBE</td>
<td>20 04 -</td>
</tr>
<tr>
<td>Chemical Engg.</td>
<td>30 06 -</td>
</tr>
<tr>
<td>Civil Engg.</td>
<td>41 08 -</td>
</tr>
<tr>
<td>Computer Sc. &amp; Engg.</td>
<td>26 05 03 01</td>
</tr>
<tr>
<td>Electrical Engg.</td>
<td>50 10 05 -</td>
</tr>
<tr>
<td>Mechanical Engg.</td>
<td>37 07 04 -</td>
</tr>
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</table>
### Materials & Met. Engg. (2-year)

<table>
<thead>
<tr>
<th>Department/Group</th>
<th>Numbers of Admission Offered</th>
<th>Actual Number of Students Joined</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry</td>
<td>47</td>
<td>09</td>
</tr>
<tr>
<td>Mathematics &amp; Scientific Computing</td>
<td>25 - 01</td>
<td>31</td>
</tr>
<tr>
<td>Economics</td>
<td>19</td>
<td>03</td>
</tr>
<tr>
<td>Physics</td>
<td>14</td>
<td>-</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>342</strong></td>
<td><strong>57 14 01 06 11 431</strong></td>
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### B.Tech.-M.Tech. (Dual Degree)

<table>
<thead>
<tr>
<th>Department/Group</th>
<th>Numbers of Admission Offered</th>
<th>Actual Number of Students Joined</th>
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<tr>
<td>Aerospace Engg.</td>
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<td>01</td>
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<td>Chemical Engg.</td>
<td>08</td>
<td>01</td>
</tr>
<tr>
<td>Civil Engg.</td>
<td>12</td>
<td>02</td>
</tr>
<tr>
<td>Computer Sc. &amp; Engg.</td>
<td>20</td>
<td>04</td>
</tr>
<tr>
<td>Electrical Engg.</td>
<td>16</td>
<td>03</td>
</tr>
<tr>
<td>Mechanical Engg.</td>
<td>13</td>
<td>03</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>74</strong></td>
<td><strong>14 01</strong></td>
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</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 2007-2008 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>
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</thead>
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<td>M.Sc. (2-year)</td>
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<tr>
<td>1</td>
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<td>27</td>
<td>24</td>
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<td>Mathematics</td>
<td>25</td>
<td>25</td>
</tr>
<tr>
<td>3</td>
<td>Physics</td>
<td>19</td>
<td>17</td>
</tr>
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<td>4</td>
<td>Statistics</td>
<td>22</td>
<td>15</td>
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<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>93</strong></td>
<td><strong>81</strong></td>
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<table>
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<th>Department/Group</th>
<th>Numbers of Admission Offered</th>
<th>Actual Number of Students Joined</th>
</tr>
</thead>
<tbody>
<tr>
<td>M.Sc. – Ph. D. (Dual Degree)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Physics</td>
<td>12</td>
<td>08</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>12</strong></td>
<td><strong>08</strong></td>
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</table>

### Post Graduate

The number of students admitted to the Postgraduate Programme in the First and Second Semesters 2007-2008 is given below:
### ENGINEERING

<table>
<thead>
<tr>
<th>Department / Group</th>
<th>First Semester</th>
<th>Second Semester</th>
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<tr>
<td>Aerospace Engg.</td>
<td>21</td>
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<td>B.S.B.E.</td>
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<td>11</td>
</tr>
<tr>
<td>Chemical Engg.</td>
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<td>10</td>
</tr>
<tr>
<td>Civil Engg.</td>
<td>54</td>
<td>02</td>
</tr>
<tr>
<td>Computer Sc. &amp; Engg.</td>
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<td>02</td>
</tr>
<tr>
<td>Design (M.Des.)</td>
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<tr>
<td>Electrical Engg.</td>
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<tr>
<td>Mechanical Engg.</td>
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<td>16</td>
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<tr>
<td>Materials &amp; Met. Engg.</td>
<td>15</td>
<td>06</td>
</tr>
<tr>
<td>I.M.E.</td>
<td>10</td>
<td>03</td>
</tr>
<tr>
<td>Laser Technology</td>
<td>02</td>
<td>-</td>
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<tr>
<td>Material Science</td>
<td>10</td>
<td>02</td>
</tr>
<tr>
<td>N.E.T.</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>E.E.M.</td>
<td>16</td>
<td>-</td>
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<tr>
<td>M.B.A. (IME)</td>
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<td>-</td>
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<tr>
<td><strong>Total</strong></td>
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<td><strong>66</strong></td>
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### SCIENCES

<table>
<thead>
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<th>Department / Group</th>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry</td>
<td>23</td>
<td>23</td>
</tr>
<tr>
<td>Mathematics</td>
<td>06</td>
<td>06</td>
</tr>
<tr>
<td>Statistics</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Physics</td>
<td>08</td>
<td>08</td>
</tr>
<tr>
<td>M.Sc.-Ph.D. Dual Degree in Physics</td>
<td>04</td>
<td>04</td>
</tr>
<tr>
<td>H.S.S.</td>
<td>08</td>
<td>08</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>49</strong></td>
<td><strong>49</strong></td>
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<tr>
<td><strong>Grand Total</strong></td>
<td><strong>390</strong></td>
<td><strong>115</strong></td>
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</tbody>
</table>

The total department/programme wise strength of the Post Graduate students during the year 2007-2008 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>
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<td>36</td>
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<tr>
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<td>56</td>
</tr>
<tr>
<td>Chemical Engg.</td>
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<tr>
<td>Civil Engg.</td>
<td>98</td>
<td>34</td>
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<tr>
<td>Computer Sc. &amp; Engg.</td>
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<td>11</td>
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<tr>
<td>Design (M.Des.)</td>
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<tr>
<td>Electrical Engg.</td>
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<td>60</td>
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<tr>
<td>Mechanical Engg.</td>
<td>100</td>
<td>62</td>
</tr>
<tr>
<td>Materials &amp; Met. Engg.</td>
<td>52</td>
<td>30</td>
</tr>
<tr>
<td>I.M.E.</td>
<td>23</td>
<td>20</td>
</tr>
<tr>
<td>Laser Technology</td>
<td>09</td>
<td>-</td>
</tr>
<tr>
<td>Material Science</td>
<td>24</td>
<td>12</td>
</tr>
<tr>
<td>N.E.T.</td>
<td>15</td>
<td>02</td>
</tr>
<tr>
<td>E.E.M.</td>
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<td>-</td>
</tr>
<tr>
<td>M.B.A. (IME)</td>
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<td>-</td>
</tr>
<tr>
<td><strong>Total</strong></td>
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<td>361</td>
</tr>
</tbody>
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### SCIENCES

<table>
<thead>
<tr>
<th>Department / Group</th>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry</td>
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<tr>
<td>Mathematics &amp; Statistics</td>
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<td>06</td>
</tr>
<tr>
<td>Physics</td>
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<td>45</td>
</tr>
<tr>
<td>M.Sc.-Ph.D. Dual Degree in Physics</td>
<td>34</td>
<td>34</td>
</tr>
<tr>
<td>H.S.S.</td>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>360</td>
<td>360</td>
</tr>
</tbody>
</table>

**Grand Total**: 830 721 1551 782 740 1522

Strength of Undergraduate and Postgraduate Students during 2007 – 2008 – I:

|--------------------|---------------------|------------------------|--------------|------------------|--------|-------|-----------------|----------------|

67
During the year 2007-2008, 994 students completed the requirements for the award of B.Tech., M.Sc., DIIT, MBA, M.Tech., and Ph.D. degrees as detailed below:

- **B.Tech.**: 334
- **M.Sc. (2 yr. & 5 yr.)**: 70 & 40
- **B.Tech.-M.Tech. (Dual)**: 60
- **MBA**: 27
- **M.Tech.**: 356
- **M.Des.**: 06
- **Ph.D.**: 101
- **Total**: 994
COURSES OFFERED

The following Table gives a picture of the courses offered during 2007-2008 at the undergraduate as well as postgraduate level:

### UNDERGRADUATE LEVEL

<table>
<thead>
<tr>
<th>Core Curriculum/Department Courses</th>
<th>First Sem.</th>
<th>Second Sem.</th>
<th>Summer</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Courses run by various departments</td>
<td>28</td>
<td>38</td>
<td>03</td>
<td>69</td>
</tr>
<tr>
<td>Aerospace Engineering</td>
<td>17</td>
<td>17</td>
<td>01</td>
<td>35</td>
</tr>
<tr>
<td>B. S. B. E.</td>
<td>11</td>
<td>13</td>
<td>02</td>
<td>36</td>
</tr>
<tr>
<td>Chemical Engineering</td>
<td>20</td>
<td>19</td>
<td>01</td>
<td>40</td>
</tr>
<tr>
<td>Civil Engineering</td>
<td>24</td>
<td>22</td>
<td>01</td>
<td>47</td>
</tr>
<tr>
<td>Computer Science &amp; Engineering</td>
<td>25</td>
<td>25</td>
<td>02</td>
<td>52</td>
</tr>
<tr>
<td>Electrical Engineering</td>
<td>26</td>
<td>26</td>
<td>01</td>
<td>53</td>
</tr>
<tr>
<td>Mechanical Engineering</td>
<td>29</td>
<td>28</td>
<td>01</td>
<td>58</td>
</tr>
<tr>
<td>Materials &amp; Metallurgical Engineering</td>
<td>14</td>
<td>15</td>
<td>02</td>
<td>31</td>
</tr>
<tr>
<td>Chemistry</td>
<td>20</td>
<td>25</td>
<td>02</td>
<td>47</td>
</tr>
<tr>
<td>Mathematics</td>
<td>30</td>
<td>27</td>
<td>02</td>
<td>59</td>
</tr>
<tr>
<td>Physics</td>
<td>24</td>
<td>25</td>
<td>-</td>
<td>49</td>
</tr>
<tr>
<td>Humanities &amp; Social Sciences</td>
<td>16</td>
<td>21</td>
<td>04</td>
<td>41</td>
</tr>
<tr>
<td>Industrial &amp; Management Engineering</td>
<td>05</td>
<td>08</td>
<td>-</td>
<td>13</td>
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<tr>
<td>Nuclear Engineering &amp; Technology</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Materials Science Program</td>
<td>03</td>
<td>01</td>
<td>-</td>
<td>04</td>
</tr>
<tr>
<td>Laser Technology Program</td>
<td>01</td>
<td>02</td>
<td>-</td>
<td>03</td>
</tr>
<tr>
<td>CPA</td>
<td>02</td>
<td>01</td>
<td>-</td>
<td>03</td>
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</tbody>
</table>

### POST GRADUATE LEVEL

<table>
<thead>
<tr>
<th>Core Curriculum/Department Courses</th>
<th>First Sem.</th>
<th>Second Sem.</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aerospace Engineering</td>
<td>14</td>
<td>13</td>
<td>27</td>
</tr>
<tr>
<td>Chemical Engineering</td>
<td>15</td>
<td>12</td>
<td>27</td>
</tr>
<tr>
<td>Civil Engineering</td>
<td>17</td>
<td>17</td>
<td>34</td>
</tr>
<tr>
<td>Computer Science &amp; Engineering</td>
<td>15</td>
<td>15</td>
<td>30</td>
</tr>
<tr>
<td>Design (M.Des.)</td>
<td>06</td>
<td>06</td>
<td>12</td>
</tr>
<tr>
<td>Electrical Engineering</td>
<td>23</td>
<td>21</td>
<td>44</td>
</tr>
<tr>
<td>Environmental Engg. &amp; Management</td>
<td>04</td>
<td>04</td>
<td>08</td>
</tr>
</tbody>
</table>
### Mechanical Engineering
- 22
- 21
- 43

### Materials & Metallurgical Engineering
- 10
- 08
- 18

### Chemistry
- 15
- 14
- 29

### Mathematics / Statistics
- 09 / 01
- 11 / 01
- 20 / 02

### Physics
- 09
- 13
- 22

### Humanities & Social Sciences
- 20
- 17
- 37

### Industrial & Management Engineering
- 07
- 04
- 11

### Materials Science Program
- 07
- 06
- 13

### Nuclear Engineering & Technology
- 03
- 06
- 09

### Laser Technology Program
- 03
- 03
- 06

### Biological Science & Bio Engg.
- 14
- 12
- 26

### M.B.A.
- 18
- 18
- 36

## 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 2007-2008 (upto May, 2008)

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Contents</th>
<th>1&lt;sup&gt;st&lt;/sup&gt; Year</th>
<th>2&lt;sup&gt;nd&lt;/sup&gt; Year</th>
<th>3&lt;sup&gt;rd&lt;/sup&gt; Year</th>
<th>4&lt;sup&gt;th&lt;/sup&gt; Year</th>
<th>5&lt;sup&gt;th&lt;/sup&gt; Year</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Students strength at the beginning of the session</td>
<td>509</td>
<td>537</td>
<td>499</td>
<td>475</td>
<td>131</td>
<td>2151</td>
</tr>
<tr>
<td>2</td>
<td>Students strength at the beginning of the 2&lt;sup&gt;nd&lt;/sup&gt; semester</td>
<td>508</td>
<td>529</td>
<td>496</td>
<td>475</td>
<td>158</td>
<td>2166</td>
</tr>
<tr>
<td>3</td>
<td>Students joined in 2&lt;sup&gt;nd&lt;/sup&gt; semester on migration</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Number of students withdrawn or on leave on medical ground in 1&lt;sup&gt;st&lt;/sup&gt; and 2&lt;sup&gt;nd&lt;/sup&gt; semesters</td>
<td>04</td>
<td>-</td>
<td>06</td>
<td>01</td>
<td>01</td>
<td>12</td>
</tr>
<tr>
<td>5</td>
<td>Number of students graduated</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>334</td>
<td>100</td>
<td>434</td>
</tr>
<tr>
<td>6</td>
<td>Number of students dismissed due to poor performance in 1&lt;sup&gt;st&lt;/sup&gt; and 2&lt;sup&gt;nd&lt;/sup&gt; semester</td>
<td>-</td>
<td>04</td>
<td>01</td>
<td>-</td>
<td>-</td>
<td>05</td>
</tr>
</tbody>
</table>

### Sl. No. | 1<sup>st</sup> Year | 2<sup>nd</sup> Year | 3<sup>rd</sup> Year | 4<sup>th</sup> Year | 5<sup>th</sup> Year | Total |
| 1       | 0                   | 0                   | 0                   | 0                   | 0                   | 0     |
| 2       | 0                   | 0                   | 0                   | 0                   | 0                   | 0     |
| 3       | 0                   | 0                   | 0                   | 0                   | 0                   | 0     |
| 4       | 0                   | 0                   | 0                   | 0                   | 0                   | 0     |
| 5       | 0                   | 0                   | 0                   | 0                   | 0                   | 0     |
| 6       | 0                   | 0                   | 0                   | 0                   | 0                   | 0     |
The following statement shows promotion and detention of M.Sc. (2-year) and M.Sc. (Dual Degree) students in the academic year 2007-2008 (upto May, 2008)

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Contents</th>
<th>1st Year</th>
<th>2nd Year</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Students strength at the beginning of the session</td>
<td>87</td>
<td>74</td>
<td>161</td>
</tr>
<tr>
<td>2</td>
<td>Students strength at the beginning of the 2nd Sem.</td>
<td>86</td>
<td>73</td>
<td>159</td>
</tr>
<tr>
<td>3</td>
<td>Number of students dismissed in 1st semester</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Number of students dismissed in 2nd semester</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Number of students graduated in 1st semester</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Number of students graduated in 2nd semester</td>
<td>70</td>
<td>70</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Number of students dismissed in due to continued absence from the programme</td>
<td></td>
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</tbody>
</table>

Following is the department-wise break-up of students who were awarded the degree at XL Convocation held on 31-05-2008. Professor SHIH Choon Fong, President, National University of Singapore was the Chief Guest at the Convocation:

<table>
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<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>AERO ENGG.</td>
<td>21</td>
<td>03</td>
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<td>24</td>
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<tr>
<td>2</td>
<td>BSBE</td>
<td>17</td>
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<td>01</td>
<td>14</td>
<td>31</td>
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<tr>
<td>3</td>
<td>CHEM. ENGG.</td>
<td>45</td>
<td>09</td>
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<td></td>
<td>54</td>
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<td>09</td>
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<td>4</td>
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<td>-</td>
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<td>12</td>
<td>22</td>
<td>34</td>
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<td>23</td>
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<td>CIVIL ENGG.</td>
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<td>100</td>
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<td>35</td>
<td>03</td>
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<tr>
<td>7</td>
<td>DESIGN PROG.</td>
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<td>06</td>
<td>-</td>
<td>-</td>
<td>06</td>
<td>-</td>
<td>06</td>
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<td>ELECT. ENGG.</td>
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<td>72</td>
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<td>09</td>
<td>78</td>
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<tr>
<td>9</td>
<td>ENV.ENG. &amp;MGMT</td>
<td>-</td>
<td>-</td>
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<td>16</td>
<td>-</td>
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<tr>
<td></td>
<td>ES &amp; SOC. SCs.</td>
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<td>11. INDUSTRIAL &amp; MGMT. ENGG.</td>
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<td>-</td>
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<td>27</td>
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<td>02</td>
<td>47</td>
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<tr>
<td>12.</td>
<td>LASER TECH.</td>
<td>-</td>
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<td>13.</td>
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</tr>
<tr>
<td>16.</td>
<td>MATHS &amp; SC COMPUTING</td>
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<td>-</td>
<td>-</td>
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<td>MECHANICAL ENGG.</td>
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<td>64</td>
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<tr>
<td>18.</td>
<td>NUCLEAR ENGG. &amp; TECHNOLOGY</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>03</td>
<td>02</td>
<td>05</td>
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<td>PHYSICS</td>
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<td>20.</td>
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<td>02</td>
<td>19</td>
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<td>TOTAL</td>
<td>334</td>
<td>60</td>
<td>40</td>
<td>70</td>
<td>504</td>
<td>27</td>
<td>06</td>
<td>356</td>
<td>101</td>
<td>487</td>
<td>994</td>
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</table>
Research and Development

The Institute is engaged in providing meaningful education in engineering and science, while conducting original research of the highest standard. The research profile of the Institute is continually growing every year. During the year 2007-2008, about 111 sponsored projects and 109 consultancy projects were undertaken by the faculty and research engineers/scientists of the Institute with the sanctioned amount of Rs. 4182 lakhs and 663 lakhs respectively.

Our faculty members have published around 745 research papers in reputed national and international journals. This year Dr. Animangsu Ghatak, department of Chemical Engineering published a paper in *SCIENCE*, a journal that has an impact factor of 30. The Institute has signed several Memoranda of Understanding with Indian as well as international academic/research institutions and industries to strengthen its collaborative research efforts.

Details of some of the major projects sanctioned during the year 2007-08 are as follows:

**National Projects**

- **Understanding Plant-Nematode Interactions using RNAI**
  Indian Council of Agricultural Research, under a World Bank-funded scheme called National Agricultural Innovation Project awarded a five-year Rs. 5.5 crore project to a consortium led by Dr. K. Subramaniam of the department of Biological Sciences & Bioengineering. Earlier, Dr. Subramaniam's group had demonstrated the successful use of RNAi technology to engineer plants for nematode resistance. The current project aims to expand this work to vegetable and pulse crops, as well as to use this strategy to investigate the biology of plant-nematode interactions. Other members of this consortium are National Research Centre of Plant Biotechnology, Indian Agricultural Research Institute and Indian Institute of Pulses Research.

- **Reusable Metallopolymetric Catalysis for Phosphate Ester and Peptide Bond Modifications**
  This project deals with the development of reusable catalysts which have the ability to modify nucleic acids and proteins. Following bioinspired paradigms, the aim of this project is to explore the role of multiple metal ion centres, embedded within polymeric matrices, in achieving catalytic turnovers which are close to natural enzymatic
reactions. Sanctioned under the Bioinorganic Chemistry Initiative of DST, it is hoped that objectives detailed in this project will reveal interesting role of polymeric scaffolds and synergism of multiple metal ion centres, to discover reusable synthetic enzyme-like catalysts for controlled modification of biological molecules.

- **Smart Card Reader and Terminal Standards**
  Smart cards are commonly used for applications such as ID, loyalty, payment and security. With an earlier project under MCIT, IIT Kanpur and NIC together had been able to establish a standard for the Smart Card operating system called SCOSTA. The SCOSTA standard is compliant to a set of ISO-7816 standards which are the open standard for smart card interactions.

  The goal of SMART CARD READER AND TERMINAL STANDARDS project is to establish continuity with SCOSTA card definitions and to develop reader specifications for the hardware and the OS to support SCOSTA based applications. This project therefore aims at developing an open interface which might be used by enforcing agencies and others who would like to operate with the SCOSTA and other similar smart cards for developing larger applications. Some of the desirable features in such a reader are seamless integration of various peripherals; support for multiple smart card reader interfaces including contact and contact-less interfaces and card to card communication and authentication; abstraction of display to support text-only and text and graphics; public key infrastructure to support encryption, decryption and authentication, digital certificates and digital signatures.

- **Nano-Sized SiC based Quantum Structure on Siby Spin on Techniques**
  The project aims at developing a simple technique for the growth of nano sized SiC/GeSiC quantum dots/dashes on silicon and evaluating its applications in Microelectronics and Photonics. Both experimental and theoretical studies will be employed in the development. At present, the technique that has been employed in the work is to use C60 (Fullerene) dissolved in CS$_2$ (Carbon-Di-Sulphide) and spun on (100) and (111) silicon with 0.5 and 3deg miscut towards the nearest <110> at speeds of 4000-4500 rpm. The layers have been examined with SEM.

- **Oxide Based Functional Thin Film Nano Structure for Spintronics and Quantum Information**
  This interdepartmental program envisages the use of a Scanning Probe Microscope (SPM) for creating novel nanoscale structures for spintronics and quantum informatics. These structures are being synthesized primarily using
perovskite family of oxides and oxides-based dilute magnetic semiconductors in a field effect transistor (FET) geometry. The focus is to modulate the magnetic state of the material and its magneto resistance by using electric field.

- **Design Centre in Brass Products for Development of Moradabad Cluster and its Allied Craftsmanship**
  There is a growing realization that the rich crafts traditions of India and the skill base of Indian artisans are a marketable economics resource. However, there is also a fear that the handicraft sector might perish in its bid for survival against the now established and accepted aesthetics of the machine. This makes it necessary to equip the handicrafts sector with technological innovations to enable the artisans to connect with the globalized market in a commercially sustainable way, without losing their identity. Indigenous handicrafts and its many attributes and processes require urgent consideration for electronic preservation. The aim is to realize the broader scopes of its preservation, conservation and methodical dissemination to various user-groups.

- **Development of a Microaware Plasma based Negative**
  The application of microwaves will make the negative ion source electrodeless and free from current carrying filaments, thereby increasing the source lifetime. An intense plasma will be created by electron cyclotron resonance (ECR) mechanism or by collisional wave absorption, depending upon the electron-neutral atom collision frequency and the plasma will be made to diffuse to a cooler region where negative ions will be formed by attachment. A magnetic filter reduces the electron temperature and facilitates the formation of negative ions, and reduces their destruction. A study of plasma dynamics through the filter will be useful to understand the physics behind the filter operation and to determine optimum condition for negative ion formation. Finally characterization of the negative ion source including measurements of negative ion density and temperature, and experiments on utilization of the negative ions will be performed.

- **Modelling of Microphysical and Optical Properties of Clouds**
  Cloud microphysical parameters (such as particle size, number concentration), their thermodynamic state (ice or liquid) and the optical parameters (such as extinction coefficients, phase function, single scattering albedo, optical depth) are the key input parameters in the satellite retrieval algorithms. This project seeks to develop a detailed cloud microphysical model that will produce the hydrometeor (liquid water droplets, ice crystals, rain drops) distribution as a function of temperature, relative humidity and chemically and size resolved aerosol
Modelled microphysical properties will be extensively validated against the field data. The model will be used to investigate the role of different ice nucleation mechanisms in precipitation from mixed-phase clouds, which is unknown hitherto.

- **Finishing of Miniature Holes Supper Alloys using Abrasive Flow Machining (AFM)**
  It is for development of an Abrasive Flow Machining setup for finishing of miniature holes in super alloys. The health of the process will be monitored online through Acoustic Emission in order to get good quality products. Considering the above facts, the proposed research work will be focused towards the following: Indigenous development of visco-elastic medium for finishing micro geometric features using AFM, to build an experimental set-up having the facility to provide rotating motion to the medium and to understand the new process from surface integrity point-of-view.

**International Projects**

- **Transceiver Chip For The Next Generation Of Networks In Telecommunication**
  It provides planar integrated monolithic microwave integrated (MMIC) circuit solutions of transceiver design to replace bulky 3D components in wireless communications. Full integration of the transceiver will also improve performance, reduce power consumption and expand applications into millimetre wave frequency range. It will also increase the usage of communications transceiver bringing network connections to remote areas of the world.

- **River Dynamic and Hazards Assessment in the Himalayan Foreland**
  The Himalayas are the largest active convergent mountain belt on Earth, with topographic relief of over 8 km, frequent large earthquakes, and high orographic rainfall. These conditions impose severe natural hazards on the densely-populated Gangetic Plain of northern India, including landslides near the Himalayan mountain front, which deliver high quantities of sediment to the river systems, leading to channel aggradation and widespread flooding in the Gangetic Plain. This research will test the hypothesis that both landslide and flood hazards are intimately linked to erosion and deposition of sediment along the Himalayan front. This erosion and deposition is driven by local base level changes, and is highly variable in space and time. Base level changes drive flood risk in the plains but also feedback to influence hazards along the mountain front. The research will result in the first coherent overview of the causes and timing of erosion and
deposition across this region, as well as an integrated regional hazard assessment that ties upstream river basin conditions to downstream flood hazard.

- **Mathematical And Experimental Modeling Of The Animal Stress Response Network**
  This project envisages a system biology approach to understand genome-wide gene-expression profiles during stress-response and carcinogenesis. The project goals are to build mathematical models towards finding gene-regulatory network under these conditions. Collaborating institutes are Indian Institute of Toxicology Research, Lucknow and University of Nottingham, UK. The contribution of IITK would be in terms of generating the gene expressing data, both in the context of cancer and stress-response, using the model organism fruit fly, Drosophila.

Patents filed by IIT Kanpur Faculty during the financial year 2007-2008:

1. Novel low temperature synthesis of Nd-doped bismuth Titanate Nanoparticles;
2. Liquid-solid radially cross-flow multi-stage fluidized bed contactor;
3. Magnetic Float Levitative Finishing;
4. Synthesis of stable nanocrystalline iron carbides by reaction milling in a dual-drive planetary mill;
5. Process for drilling contoured deep hole in super alloys using STED to enhance cooling in Turbine blades;
6. An improved organic optoelectronic device;
7. Profile Measuring Machine;
8. Piston based resistor;
9. Electrosprinning apparatus for producing nanofibers and process thereof;
10. Estimation of inertia tensor and centre of gravity of a vehicle on the three axes platform;
11. A process for synthesis of polymeric micro/nanoparticles for drug delivery applications;
12. WDM Optical Packet Switch incorporating Fibre Bragg Gratings and circulator;
13. All optical reflectors based WDM Optical Packet Switch;
14. A Dynamic logic family using only N or P-type enhancement mode-MOSFET;
15. Optical enhancement of two-photon absorption process;
17. Remote Service Machine (RSM);
18. Using personal devices for authentication and service access at service outlets;
Major Multi-disciplinary Facilities Added during the financial year 2007-2008:

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

   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 in teaching and research and is to be spent exclusively for the said purpose. During 2007-2008, the Institute has received FIST grants to add special infrastructure facilities for research purposes.

   The Department of Chemical Engineering has been provided a total amount of Rs. 6 crores. The grant will be utilized to achieve vision in the following thrust areas that need to be specially cultivated in the next decade: Advanced and Functional Materials (nanomaterials; composites; catalytic; bio-, opto-electronic and polymer materials); Novel Reaction and Separation Processes; Nanoengineering and Nanosciences; Bioengineering and Biotechnology; Process Intensification; Complex Fluids, Colloid and Interfacial Engineering; Environmental engineering. These areas will remain the engines of growth for chemical engineering in the foreseeable future and will require major departures from many research practices of the yesteryears.

   The Department of Chemistry has been provided a total amount of Rs. 4 crores. The department is active in pursuing modern research in the areas both in traditional chemistry and also at the interface of biology, material science, nano-science. The department needs state-of-the-art equipments to meet the challenges in these areas. The equipments sanctioned under the FIST grant are Atomic Force Microscope (AFM) which is primarily employed to decipher processing and materials problems in diverse areas of chemistry, electronics, biology, automotive, aerospace, and energy; fluorescence spectroscopy which is a very valuable technique that can probe excited states of molecules and give a very deep insight into the conformation of biomolecules like proteins as well. Likewise, the other facilities like high performance computing of molecules, clusters and materials; Resonance Raman spectrometer will augment the research performance by different faculty members.

2. **Centre for BSNL-IITK Telecom Centre of Excellence:**

   The Institute has signed an MoU with Bharat Sanchar Nigam Limited (BSNL) for setting up the *BSNL-IITK Telecom Centre of Excellence*. The basic objective of the Centre is to provide and facilitate an environment for innovation and application oriented
research in the field of Telecommunication and related areas. It will seek to address
the technological needs of DoT, BSNL and other related industries.

3. Centre for Uttar Pradesh Power Transmission Corporation Ltd (UPPTCL):

The Institute has also entered into an MoU with Uttar Pradesh Power Transmission
Corporation Ltd (UPPTCL) with the objective of accelerating the development of the
transmission system in UP through appropriate application of science and technology.
Such efforts would enable the State to utilize the scientific, technological and
managerial resources of the Institute in introducing modern technology to accelerate
its economic growth and also upgrade the technological skills of its personnel.

4. Centre for Archaeology and Cultural Resource Management:

The Institute has also entered into an MoU with the Archaeological Survey of India, to
set up Centre for Archaeology and Cultural Resource Management. The Institute shall
draw specific short and long term training programs for capacity building for officers
of The Archaeological Survey of India in the application of modern technology in
archaeology. Initially, the focus will be on Geoinformatics, CAD and Computer
Applications in Archaeology and Archaeo-materials.

5. 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 equipment for
multidisciplinary research of significant value. The Institute is adding several major
infrastructural facilities for carrying out multidisciplinary R&D activities.

A Terrestrial Laser Scanner under the CARE scheme project was procured. ILRIS3D
from Optech Inc., Canada was purchased at a cost of Rs. 55 lakhs and is ready for use
since the month of May 2008. This high density surveying instrument opens up
several avenues for research and problem solving. The Cascaded Dilatometer Facility
procured under CARE scheme will be housed at the Materials Processing Laboratory
(MPL) in the Advanced Centre for Materials Science. A dilatometer is employed for
measuring in situ the instantaneous dimensional changes in compacts during various
thermal cycles.

ICAP 6300 ICP Spectrometer was acquired under the CARE scheme. The use of
Inductively Coupled Plasma source (ICP) and Atomic Absorption (AA) are the
accepted and most powerful techniques for the analysis of and quantification of trace
elements in both solid and liquid samples. Applications range from important environmental analyses to the materials industry, geological applications to clinical research and from the food industry to the semiconductor industry.

During the year 2007-08, IIT Kanpur strengthened its relations with many national and international institutes and organizations through research collaborations and signed several Memoranda of Understanding. During the year, 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:

- The University of Nottingham, Nottingham for collaborating on a project entitled *Mathematical and experimental modeling of the animal stress-response network*
- Dan Kook University, Korea for providing a Summer Course on Organic Electronics – 2007
- The Universita’ Degli Studi Di Perugia, Italy to award fellowships to young Indian Researchers
- De Montford University Leicester, UK (DMUL) and University of Bristol, Bristol, UK (UOBB) for carrying out a project entitled *High Alpha Aerodynamic & Modelling and Nonlinear Flight Dynamic Analysis*
- The Regents of the University of California for Conformal Deposition of Carbon Particles on Three-Dimensional Microstructures
- Keio University, Japan agreement on Academic Linkage, Collaboration and Exchange programme.
- Deakin University, Geelong Victoria for undertaking a project titled *Exploiting Crystallographic Texture for Improved Nano-Crystalline Metals*
- International Foundation for Science for research agreement for carrying project entitled *Novel Biosynthesis of CdS nanoparticles by immobilized fungus*
- Nanyang Technological University, Singapore for Research collaboration agreement for carrying the project entitled *A model of special economic zone in India with enhanced efficiency in supply chain operations and logistics*
- The University of Allahabad, Allahabad for collaboration in areas related to cultural resource management
- Ferroz Gandhi Institute of Engineering & Technology, Raibareilly to promote and enhance academic interest between both parties, to provide advice for implementation of quality of education at FGIET and to encourage bright students of FGIET to come for PG education at IITK.
• Dayalbagh Education Institute, Agra to carry out joint research activities and projects in the fields of common interest viz. doctoral or post graduate programme and exchange programme for faculty and students.

• Centre for Development of Advanced Computing, Vellayambalam, Thiruvananthapuram for carrying out research on Universal Front-End for Micro Generators using Renewable Sources

• Department of Biotechnology, Ministry of Science & Technology, GOI, New Delhi (DBT) being desirous of MEMBRANE BIO-SEPARATION decided to support a project entitled Milk nutraceuticals : a biotechnology opportunity for Australian and Indian dairy producers

• Prasar Bharti (Broadcasting Corporation of India) for ongoing scheme of Continuing Education and Training Programme

• Center for Development of Advanced Computing (C-DAC) Noida for transfer of ANGLABHARTI TECHNOLOGY for developing the machine-aided translation system from English to Punjabi.

• Center for Development of Advanced Computing (C-DAC) Noida for transfer of ANGLABHARTI TECHNOLOGY for developing the machine-aided translation system from English to Urdu.

• The Department of Scientific and Industrial Research (DSIR) and Technology Information Forecasting and Assessment Council (TIFAC) New Delhi for collaborate to provide the help to operate TePP Activities Programme as their collaboration therein would be mutually beneficial.

• Technology Development Board, New Delhi has approved the scheme for Seed Support System for Start-ups in Incubators for providing financial assistance as seed support for start-ups in the Institution as a growth oriented initiative between the Board and the Institution.

• IIT-Delhi, IIIT-Allahabad, Knowledge Online.Com (P)Ltd, KritiKal Solutions (P) Ltd., TVS Motor Company Ltd., TIFAC the main aim of this agreement is to implement pre-competitive studies leading to the development of “Computer based Acoustic - vibration quality testing of single cylinder engines”.

• Research Design & Standards Organisation, Lucknow for Development of guidelines on seismic design of Railway bridges and training of Railway’s Engineers


• Research Design & Standards Organization, Lucknow for consultancy and upgradeation of PDP 11/73 based data acquisition and control system on schenck track panel fatigue testing machine.
During the year 2007-08, Memoranda of Understanding have also been signed with many companies such as:

- The Cooperative Research Centre for Contamination Assessment and Remediation of the Environment Pvt. Ltd, Cromoz Inc. USA,
- International Business Machines Corporation, New York (IBM),
- Autodesk Asia Pte Limited,
- Intel Corporation, Santa Clara,
- Nemgenix Pty. Ltd. Australia,
- Procter & Gamble Company, Ohio,
- Siemens Information Systems Ltd.,
- Process Intensification Consultants (PIC),
- Hindustan Petroleum Corporation Limited,
- Shinsei Bank Limited, Japan, IHI Corporation, Japan.

A list of major sponsored and consultancy projects sanctioned during the financial year 2007-2008 is provided below.

Sponsored Projects

A. National Projects

- **DEVELOPMENT OF NEXT GENERATION PLASMA DISPLAY PANEL TECHNOLOGY AND 50 HDPDP PROTOTYPE**, funded by CSIR, Total Cost Rs. 132,00,000.00
- **SYNTHESIS AND CHARACTERIZATION OF CARBON MOLECULAR SIEVES FROM ACTIVATED CARBON FIBERS**, funded by CSIR, Total Cost Rs. 9,34,000.00
- **CARBON NANO TUBES COATED CARBON FIBER COMPOSITES IN POLYCARBONATE MATRIX**, funded by CSIR, Total Cost Rs. 11,96,000.00
- **BIOMECHANICAL STUDY ON THE ROLE OF CIRCULAR LONGITUDINAL & OBLIQUE MUSCLES IN GASTRIC MOTILITY USING HIGH PERFORMANCE COMPUTING**, funded by CSIR, Total Cost Rs. 6,01,000.00
- **CREATING A BMP RESPONSIVE REPORTER CELL LINE**, funded by CSIR, Total Cost Rs. 1,10,600.00
- **SYNTHESIS OF PYRIDINE AND CARBOXYLATE DONOR LIGANDS AND THEIR METAL CA-ORDINATION**, funded by CSIR, Total Cost Rs. 8,00,000.00
- **TREATMENT OF WASTEWATER CONTAINING AZO-DYES BY OZONATION AND AEROBIC BIODEGRADATION**, funded by CSIR, Total Cost Rs. 10,96,000.00
- **DEVELOPMENT OF NEW METHODS FOR SYNTHESIS OF 2-SUBSTITUTED CYCLOBUTANONE AND CHIRAL CYCLOPROPANOL**, funded by CSIR, Total Cost Rs. 13,46,000.00
• STUDYING THE ROLE OF SURFACE AND BULK HETEROGENEITIES OF A RELEASE COATING FOR THE REMOVAL OF BIOFOULANTS, funded by CSIR, Total Cost Rs. 19,96,000.00
• INVESTIGATION ON THE EFFECTS OF COMPOSITIONAL MODIFICATIONS ON STRUCTURE AND PROPERTIES OF BIFE 03 THIN FILMS FOR DEVICE APPLICATIONS, funded by CSIR, Total Cost Rs. 13,49,000.00
• IDENTIFICATION OF THE MOLECULAR MECHANISMS THAT DETERMINE THE FOVEAL REGION IN THE VERTEBRATE RETINA, funded by CSIR, Total Cost Rs. 5,58,500.00
• PHOTOCHROMISM BASED ON C=O BOND HETEROLYSIS: MECHANISTIC INSIGHTS AND MODIFIED BENZOPYRANS TOWARDS IMPROVED PHOTOBEHAVIOR, funded by CSIR, Total Cost Rs. 10,50,000.00
• DETERMINANTS OF CHILD MORTALITY REPORTED CAUSES AND QUALITY OF SERVICE, funded by CSIR, Total Cost Rs. 3,67,800.00
• REMOTE SENSING AND ARCHAEOLOGICAL INVESTIGATIONS FOR THE INTERPRETATION OF THE GROWTH OF THE HOLY CITY OF VARANASI, funded by DST, Total Cost Rs. 6,12,000.00
• REUSABLE METALLOPOLYMERIC CATALYSIS FOR PHOSPHATE ESTER AND PEPTIDE BOND MODIFICATIONS, funded by DST, Total Cost Rs. 81,96,000.00
• DEVELOPING A HIGH SENSITIVITY MAGNETO-OPTICAL IMAGING TECHNIQUE, funded by DST, Total Cost Rs. 66,71,629.00
• NHC BASED MULTI SITE COORDINATING LIGAND, funded by DST, Total Cost Rs. 30,90,000.00
• DEVELOPMENT OF NEW AFFINITY- BASED CELL SEPARATION TECHNOLOGY USING CRYOGELS, funded by DST, Total Cost Rs. 24,00,000.00
• DEVELOPMENT AND CHARACTERIZATION OF LANGMUIR-BLODGETT THIN FILM OF PVA BASED ELECTROACTIVE HYDROGELS FOR USAGE IN SMART STRUCTURES, funded by DST, Total Cost Rs. 20,40,000.00
• MOLECULAR PATHOLOGY IN LAFOR’S DISEASE: DEFINING THE CELLULAR FUNCTION OF LAFORIN PHOSPHATASE, funded by DST, Total Cost Rs. 3,22,000.00
• ELECTROCHEMICAL DEPOSITION TECHNIQUE FOR FABRICATING SOLAR CELLS AND IR PHOTODECTORS, funded by DST, Total Cost Rs. 18,84,000.00
• IDENTIFICATION AND FUNCTIONAL CHARACTERIZATION OF BMP-TARGET GENES IN OSTEOGENESIS, funded by DST, Total Cost Rs. 22,86,000.00
• MESOSTRUCTURED FUNCTIONAL THIN FILM AND INTERFACES OF SOFT MATERIALS, funded by DST, Total Cost Rs. 4,83,58,305.00
• IDENTIFICATION AND CHARACTERIZATION OF CELLULAR SUBSTRATES FOR LAFORIN PHOSPHATES, THE PROTEIN DEFECTIVE IN LAFORA’S
PROGRESSIVE MYOCLONUS EPILEPSY, funded by DST, Total Cost Rs. 22,73,900.00

- AN INVESTIGATION OF THE ROLE OF RETINOIC ACID SIGNALING IN DEVELOPMENT OF THE HIPPOCAMPUS, funded by DST, Total Cost Rs. 23,79,000.00

- ROLE OF SECONDARY BONDING INTERACTIONS AMONG FUNCTIONALIZED ORGNOTELLURIUM COMPOUNDS, funded by DST, Total Cost Rs. 20,00,000.00

- SPIN GLASS-LIKE ORDERING & EXCHANGE BIAS INTERACTION IN MAGNEYIC NANOPARTICLES SYNTHESIZED BY CHEMICAL ROUTES, funded by DST, Total Cost Rs. 21,70,050.00

- AQUEOUS NITRIDING OF STEEL BY ELECTROLYTE PLASMA: KINETICS, DESIGN AND SCALE-UP, funded by DST, Total Cost Rs. 18,27,200.00

- PREPARATION OF CARBON NANO-FIBRES BY POLYMERS BLEND TECHNIQUES, funded by DST, Total Cost Rs. 19,14,000.00

- NATURAL DYES- CHEMISTRY STUDIES OF NEWER NATURAL DYES, funded by DST, Total Cost Rs. 3,03,000.00

- DEVELOPMENT OF NOISE POLLUTION LEVEL MONITORING FOR TEXTILE INDUSTRY, funded by DST, Total Cost Rs. 7,80,000.00

- CYCLOADDITION AND REARRANGEMENTS OF DIAZIRIDINES TRIAZIRIDINES AZIRIDINONES AZETIDINES AND AZETIDINONES, funded by DST, Total Cost Rs. 49,70,200.00

- INVESTIGATION OF THE CRYSTALLINE RE3+:YAG FIBRE FOR DOSIMETRY, funded by DST, Total Cost Rs. 9,66,000.00

- EXPLOITING CRYSTALLOGRAPHIC TEXTURE FOR IMPROVED NANAOCRYSTALINE METALS, funded by DST, Total Cost Rs. 20,48,000.00

- DEVELOPMENT OF MOLECULARLY IMPRINTED BIOMATERIALS FOR CHOLESTROL RECOGNITION, funded by DST, Total Cost Rs. 2,76,000.00

- INCREMENTAL SHEET METAL FORMING AT MULTI-SCALES, funded by DST, Total Cost Rs. 38,72,800.00

- FIELD EFFECT TRANSISTORE BASED ON EPITAXIAL MULTICOMPONENT OXIDE HETEROSTRUCTURES, funded by DST, Total Cost Rs. 10,29,000.00

- FIST PROGRAM, funded by DST, Total Cost Rs. 4,45,00,000.00

- DESIGN AND DEVELOPMENT OF AN EXOSKELETON ROBOT FOR HUMAN HAND SUPPORT AND REHABILITATION, funded by DST, Total Cost Rs. 23,13,600.00

- SIC TDB SEED SUPPORT SYSTEM FOR START-UPS, funded by DST, Total Cost Rs. 100,00,000.00

- FIST PROGRAM 2007, funded by DST, Total Cost Rs. 60,70,000.00
• MODELLING AND SIMULATION OF DEBRIS RE-ENTRY WITH AEROTHERMAL BREAK-UP, funded by ISRO, Total Cost Rs. 5,63,500.00
• NUMERICAL AND EXPERIMENTAL STUDY OF DROPLET COMBUSTION UNDER NORMAL AND MICROGRAVITY CONDITIONS, funded by ISRO, Total Cost Rs. 18,63,000.00
• MODELING OF MICROPHYSICAL AND OPTICAL PROPERTIES OF CLOUDS, funded by ISRO, Total Cost Rs. 38,78,000.00
• EXPERIMENTAL INVESTIGATION OF FLOW AND NOISE CHARACTERISTICS OF IMPINGING TRANSIENT SUPERSONIC JETS FOR SIMULATING TAKE OFF FROM LAUNCH PAD, funded by ISRO, Total Cost Rs. 8,16,000.00
• ENVIRONMENTAL OBSERVATORY, funded by ISRO, Total Cost Rs. 35,04,000.00
• FINISHING OF MINIATURE HOLES SUPER ALLOYS USING ABRASIVE FLOW MACHINING (AFM), funded by ARDB, Total Cost Rs. 29,64,600.00
• EXPERIMENTAL INVESTIGATION OF AERODYNAMICS CHARACTERISTIC OF BIRD SIZE FLAPPINGS AND DEVELOPMENT OF AN ORNITHOPTER, funded by ARDB, Total Cost Rs. 9,70,000.00
• DEVELOPMENT AND CHARACTERIZATION OF THIN SANDWITCHED STRUCTURES USING POLYMER FOAM, funded by ARDB, Total Cost Rs. 7,86,000.00
• CUREDEPENDENT MATERIAL CHARACTERIZATION OF COMPOSITES PREPEG: FM MODELING, funded by ARDB, Total Cost Rs. 4,83,750.00
• MODELING AND DEVELOPMENT OF MULTIPHASE MICRO-STRUCTURED DAMPLING LAYER FOR BROADBAND VIBRATION DAMPLING IN FLEXIBLE LINKS, funded by ARDB, Total Cost Rs. 8,08,000.00
• DYNAMIC SHEAR STRENGTH OF ADHESIVELY BONDED INTERFACE THROUGH TORSINAL SPLIT HOPKINSON BAR, funded by ARDB, Total Cost Rs. 7,46,500.00
• PERFORMANCE EVALUATION OF CARBON NAOTUBE COATED CARBON FIBER REINFORCED CARBON COMPOSITES FOR STRUCTURAL APPLICATIONS, funded by ARDB, Total Cost Rs. 25,33,200.00
• A STUDY OF THE EFFECTS OF WAKE PASSING ON TURBINE BLADE FILM COOLING, funded by ARDB, Total Cost Rs. 12,38,000.00
• NLF WING ANALYSIS AND DESIGN, funded by ARDB, Total Cost Rs. 22,51,000.00
• TO ASSES THE ROLE OF ADAM33 GRENE EXPRESSION IN DIAGNOSIS AND MANAGEMENT OF ASTHMATICS CHILDREN: A CASE-CONTROL STUDY, funded by DBT, Total Cost Rs. 4,17,000.00
• DEVELOPMENT OF INTRATUMORAL DRUG DELIVERY SYSTEM FOR THE TREATMENT OF LUNG CANCER, funded by DBT, Total Cost Rs. 60,92,000.00
• MILK UTRACEUTICALS: A BIOTECHNOLOGY OPPORTUNITY FOR AUSTRALIAN AND INDIAN DAIRY PRODUCERS, funded by DBT, Total Cost Rs.12,68,000.00
• DEVELOPMENT OF SUPERMACROPROPORSOUS CRYOGEL MATRICES AS NOVEL POLYMERIC BIO-MATERIALS FOR BIO ENGINEERING APPLICATIONS: CELL SEPARATION, THERAPEUTIC PROTEIN PRODUCTION AND TISSUE ENGINEERING SCAFFOLDS, funded by DBT, Total Cost Rs.73,36,600.00
• GENERATION AND CHARACTERIZATION OF NEURONAL AND NUMEURAL CELL OF THE NERVOUS SYSTEM FROM THE HUMAN UMBILICAL CORD, funded by DBT, Total Cost Rs.31,47,400.00
• DEVELOPMENT OF A GENETICALLY MODEL FOR CHARACTERIZATION OF THE MOLECULAR MECHANISM OF AMYOTROPHIC LATERAL SCLEROSIS DISEASE DEVELOPMENT funded by DBT, Total Cost Rs. 30,56,000.00
• TELE-OPHTHALMOLOGY, funded by MHFW, Total Cost Rs.10,00,000.00
• SMART CARD READER AND TERMINAL STANDARDS, funded by MCIT, Total Cost Rs.55,00,000.00
• NANO-SIZED SiC BASED QUANTUM STRUCTURE ON SIBY SPIN ON TECHNIQUES, funded by MCIT, Total Cost Rs.1,06,24,000.00
• EVALUATION OF ORGANO-CHALCOGENOLATE (S,SE,TE) METAL COMPLEXEX AND THEIR NANOPARTICLES FOR PHOTO-SENSING, PHOTOVOLTAI AND ELECTRO-LUMINESCENCE PROPERTIES UNDER CARS SCHEME OF DRDO, funded by DMSRDE, Total Cost Rs. 9,90,000.00
• CORROSION RESISTANT RAILS, funded by SAIL, Total Cost Rs.30,00,000.00
• INAE - YOUNG ENGINEER AWARDEES, funded by INAE, Total Cost Rs. 1,00,000.00
• NATIONAL RFID PROGRAMME , funded by MIT, Total Cost Rs.91,00,000.00
• TRANSIENT FLOW ANALYSIS OF HEAVY DENSITY LIQUID METAL IN SPALLATION TARGET OF ADSS, funded by DAE, Total Cost Rs. 16,21,800.00
• EXPERIMENTAL AND COMPUTATIONAL STUDIES IN FLOW PAST SOFT MATERIALS, funded by DAE, Total Cost Rs. 12,91,750.00
• OXIDE BASED FUNCTIONAL THIN FILM NANO STRUCTURE FOR SPINTRONICS & QUANTUM INFORMATION, funded by DIT, Total Cost Rs. 2,32,61,000.00
• LAB MEASUREMENT OF DYNAMIC SHEAR MODULUS OF FILL SOILS FOR USE IN RAILWAY TRACK FORMATION, funded by RDSO, Total Cost Rs. 4,50,000.00
• EXPERIMENTAL STUDIES OF LIQUID FUEL COMBUSTION USING CHEMILUMINESCENCE SENSOR, funded by DRDO, Total Cost Rs. 22,40,000.00
• TOTAL SYNTHESIS OF ALL THE CHIRAL FORMS OF PENTENOCIN B, funded by DRDO, Total Cost Rs. 26,56,500.00
• DEVELOPMENT OF METAL IMPREGNATED ACTIVATED CARBON FIBRES (ACFS) FOR CONTROL OF CHEMICAL WARFARE AGENTS (CWAS), funded by DRDO, Total Cost Rs. 79,74,000.00
• MICRO GENERATORS USING RENEWABLE SOURCES, funded by CDAC, Total Cost Rs. 27,00,000.00
• PERFORMANCE ANALYSIS AND TRADING OF WIND POWER GENERATION N EMERGING POWER SYSTEM, funded by CPRI, Total Cost Rs.  21,60,000.00
• FUTURE OF THE PAST: APPLICATION OF SCIENCE & TECHNOLOGY FOR THE STUDY PRESERVATION & DISSEMINATION OF CULTURAL HERITAGE OF INDIA, funded by AICTE, Total Cost Rs. 20,50,000.00
• ACTIVE TECTONIC INVESTIGATIONS AROUND SOUTH MIDDLE ANDAMAN & CAR NICOBAR ISLANDS ASN ISLAND, funded by INCOIS, Total Cost Rs. 27,00,000.00
• QUALITY ASSURANCE CONDITION MONITORING AND FAULT DIAGNOSIS USING INTELLIGENT CONTROL METHODOLOGIES, funded by TIFAC, Total Cost Rs. 83,20,000.00
• ELECTRONIC STABILITY CONTROL SYSTEMS, funded by TIFAC, Total Cost Rs. 19,20,000.00
• E-CLASSROOM RALLOUT IN SCIENCE COLLEGE OF CHATTISGARH, funded by CHIPS, Total Cost Rs. 1,22,00,000.00
• A CRITICAL SURVEY OF LAMINAR, funded by NAL, Total Cost Rs. 2,04,000.00
• EXPERIMENTAL STUDIES ON SINGLE AND MULTI-ELEMENT AIRFOILS AT NWTF, IIT KANPUR, funded by NAL, Total Cost Rs. 30,48,000.00
• SYNTHETIC JET FOR PROPULSION AND MANEUVERING OF UNDERWATER VEHICLES, funded by NRB, Total Cost Rs. 26,66,400.00
• SYNTHESIS AND INVESTIGATION OF YB-BASED STRONGLY CORRELATED ELECTRON SYSTEMS, funded by BRNS, Total Cost Rs. 23,61,500.00
• DEVELOPMENT OF MAGNETIC FIELD SENSORS BASED ON METALLIC MULTILAYERS WITH HIGH MAGNETORESISTANCE SENSITIVITY, funded by ARMREB, Total Cost Rs. 22,65,000.00
• UNDERSTANDING PLANT-NEMATODE INTERACTIONS USING RNAI, funded by NAIP, Total Cost Rs. 2,49,65,140.00
• DESIGN CENTRE IN BRASS PRODUCTS FOR DEVELOPMENT OF MORADABAD CLUSTER AND ITS ALLIED CRAFTSMANSHIP, funded by MOT, Total Cost Rs. 46,75,000.00
• SETTING UP HANDICRAFTS MUSEUM, funded by MOT, Total Cost Rs. 46,75,000.00
• DESIGN CENTRE IN LEATHER HANDICRAFTS PRODUCTS FOR DEVELPOMENT OF KANPUR CLUSTER, funded by MOT, Total Cost Rs. 23,37,000.00
• RESEARCH ENVIRONMENT IN INDIAN INSTITUTE OF TECHNOLOGY, funded by ICSSR, Total Cost Rs. 1,44,050.00
• ZONING POLICY IN INDIAN MEGA CITIES, funded by ICSSR, Total Cost Rs. 6,57,900.00
• DEVELOPMENT OF A MICROAWARE PLASMA BASED NEGATIVE, funded by NFP, Total Cost Rs. 56,50,000.00
• EVALUATION OF AS FIELD TEST KIT, funded by UNICEF, Total Cost Rs. 1,00,000.00
• ENVIRONMENT FRIENDLY TOILET SYSTEM FOR A CONGESTED LOCALITY IN ALIGARH, funded by UNICEF, Total Cost Rs. 9,03,750.00
• STUDY FOR MOUNTING OF SLAR ANT, funded by HAL, Total Cost Rs. 1,50,000.00
• AUTODESK IITK FOR EXCELLENCE I, funded by AIP, Total Cost Rs. 6,86,260.00
• IDR-REPORT (3-I NETWORK) RESOURCES CENTRE AT IITK, funded by IDFC, Total Cost Rs. 3,00,000.00
• NANO FINISHING OF ULTRA HIGH SPEED BEARING, funded by BARC, Total Cost Rs. 11,88,500.00

B. International Projects

• MATHEMATICAL AND EXPERIMENTAL MODELING OF THE ANIMAL STRESS RESPONSE NETWORK, funded by UKIERI, Total Cost Rs. 37,67,671.73
• RIVER DYNAMIC AND HAZARDS ASSESSMENT IN THE HIMALAYAN FORELAND, funded by UKIERI, Total Cost Rs. 40,74,079.00
• DEVELOPMENT OF FUNCTIONALIZED CARBON NANOTUBES-NUCLEOBASE CONSTRUCTS AND THEIR USE IN BIOMIMETIC CATALYSTS, funded by IFCPAR, Total Cost Rs. 14,68,000.00
• CHARACTERIZATION AND MODELING OF THE NONLINEAR CREEP RESPONSE OF STRETCHED PET, funded by IFCPAR, Total Cost Rs. 11,94,200.00
• BIO INSPIRED DESIGNS OF SUPRA MOLECULAR ARCHITECTURES FROM IOTA-PEPTIDES, funded by INDOUS, Total Cost Rs. 6,30,000.00
• PLANT PARASIFIC NENOTODES, funded by VLIR, Belgium, Total Cost Rs. 1,22,629.51
• TRANSCEIVER CHIP FOR THE NEXT GENERATION OF NETWORKS IN TELECOMMUNICATION, funded by BCD, Total Cost Rs. 66,79,200.00
• TIGERZ, funded by NASA, Total Cost Rs. 5,88,150.00
Consultancy Projects

- CONSULTANCY FOR REMEDIAL MEASURES FOR FAILED/COLLAPSED R.C. CRICKET STADIUM STRUCTURE UNDER CONSTRUCTION, ETAWAH (SAIFAI) (STAGE-2), funded by UPRNN Ltd., Total Cost Rs. 1,65,300.00
- CONSULTANCY FOR REMEDIAL MEASURES FOR FAILED/COLLAPSED R.C. CRICKET STADIUM STRUCTURE UNDER CONSTRUCTION, ETAWAH (SAIFAI) (STAGE-1), funded by UPRNN Ltd., Total Cost Rs. 76,528.00
- REMODELLING OF RAIT DRAIN UNDER UPSIDC, funded by UPSIDC Ltd., Total Cost Rs. 46,528.80
- DESIGN OF OUTDOOR BTS, Total Cost Rs. 56,120.00
- WEB BASED E LEARNING SYSTEM, funded by KIIT University, Total Cost Rs. 86,125.00
- STRATEGIC & OPERATIONAL HR FOR PARAG, funded by PARAG, Total Cost Rs. 8,20,000.00
- CONSULTANCY FOR REMEDIAL MEASURES FOR FAILED/COLLAPSED R.C. CRICKET STADIUM STRUCTURE UNDER CONSTRUCTION, ETAWAH (SAIFAI) (STAGE-3), funded by UPRNN Ltd., Total Cost Rs. 7,40,789.00
- DEVELOPMENT OF DIGITAL AVR FOR CAPTIVE POWER PLANTS, funded by BHEL, Total Cost Rs. 17,60,000.00
- POWER METALLURFGICAL (P/M) PROCESSING OF HIGH DENSITY HIGH STRENGTH ALUMINIUM METAL MATRIX COMPOSITES, funded by Schlumberger, USA, Total Cost Rs. 11,75,000.00
- CONSULTANCY REGARDING HEALTH OF UMRAN ASH DYKE, funded by NTPC, Total Cost Rs. 20,398.00
- PARTICIPATION IN FIRE ADVISORY COMMITTEE, Total Cost Rs. 56,120.00
- DESIGN OF CONCRETE MIX M35, Total Cost Rs. 19,690.00
- CALIBRATION OF HYDRAULIC JACKS, Total Cost Rs. 89,792.00
- DESIGN OF CONCRETE MIX M40 WITH SUPER PLASTICIZER FOR TATA MOTORS, LUCKNOW, Total Cost Rs. 44,896.00
- DESIGN OF CONCRETE MIX M20, Total Cost Rs. 14,030.00
- CALIBRATION OF PROVING DIAL GAUGES, Total Cost Rs. 16,854.00
- AGLABHARATI CONSULTANCY, funded by CDAC, Noida, Total Cost Rs. 4,00,000.00
- FAILURE ANALYSIS OF SHUTTLE BODY, Total Cost Rs. 35,917.00
- UNDERGROUND DRAINAGE SYSTEM AT OTPS, funded by UPRVUN Ltd., Total Cost Rs. 95,596.00
- WIND TUNNEL STUDY ON RIGID MODEL OF CABLE STAYED PAVILION ROOF AT UTT, funded by KS&P Ltd., Total Cost Rs. 12,00,000.00
• **ASSESSMENT OF INFECTIOUS MEDICAL WASTE**, funded by Burgeep, France, Total Cost Rs. 69,692.00
• **MODELLING OF MASS TRANSFER EFFECT IN RESID FCC**, funded by Chevron Texaco, Total Cost Rs.5,84,100.00
• **DESIGN OF CONCRETE MIX WITH ADMIXTURE**, Total Cost Rs. 14,045.00
• **CALIBRATION OF HYDRAULIC JACKS**, funded by Freyssinet Pre-stressed Concrete Co, Total Cost Rs.67,416.00
• **ELECTRONIC FILE TRACKING**, funded by Total Cost Rs.8,40,000.00
• **DESIGN OF CONCRETE MIX M20, M25, M35, AND M40 WITH CHEMICAL ADMIXTURE AND FLY ASH**, funded by Bebanco Northern Contracts, Total Cost Rs.1,40,450.00
• **DESIGN OF CONCRETE MIX FOR NEW CORE LAB BUILDING AT IITK**, Total Cost Rs.14,030.00
• **SWELLING POTENTIAL OF COMPACTED FILL AT COMBINED CYCLE POWER PLANT IN GUJRAT**, funded by SIEMENS, Total Cost Rs.1,28,493.00
• **DESIGN OF CONCRETE MIX M20**, funded by Unitech Ltd., Total Cost Rs.14,045.00
• **RECOVERY OF WAX FROM SLACK WAX AND IMPROVEMENT OF POUR POINT OF THE OIL**, funded by Agarwal oil Refinery, Total Cost Rs.7,04,496.00
• **SUPPORTED LONIC LIQUID CATALYSIS AND HYDRODYNAMICS IN PACKED BED**, funded by Chevron Texaco, Total Cost Rs.24,00,000.00
• **COMPUTATION OF HARMONICS IN THE TRANSFORMER CURRENT UNDER NO-LOAD CONDITION**, funded by BHEL, Total Cost Rs.5,65,915.00
• **EXPERIMENTAL CHARACTERIZATION OF DESIGN EVALUATION AND FINALISATION OF ARMING MECHANISM OF FUZE DASD FOR BOMBLETS OF PINAKA WARHEAD**, funded by ARDE, Total Cost Rs.9,91,800.00
• **IMPROVING PERFORMANCE OF 32T NEW SEEL MAKING TUNDIS AT JAW TO TORANGALLI**, funded by JSW Stal Ltd., Total Cost Rs.7,50,000.00
• **BIOFUEL FOR TWO STROKE ENGINES**, funded by SHELL, Total Cost Rs.40,00,000.00
• **DESIGN OF CONCRETE MIX M20**, Total Cost Rs.10,111.00
• **PROOF CHECKING OF DESIGN DRAWING OF 2250 KL CAPACITY 18MTR STAGING OF OHSR**, Total Cost Rs.20,00,000.00
• **SEWERAGE SYSTEM AND SEWAGE TREATMENT PLANT OF PURI**, funded by MOEF, GOI, Total Cost Rs.4,57,538.00
• **HIGEE TECHNOLOGY FOR DISTILLATION/ABSORPTION**, funded by HPCL, Total Cost Rs.25,28,100.00
• **DEVELOPMENT OF BI FUNCTIONAL SOLID CATALYST FOR TRANESTRIRIFICATION OF JATROPHAOIL BIODIESEL**, funded by SHELL, Total Cost Rs.40,00,000.00
- DEVELOPMENT OF POWER SECTOR IN U.P., funded by GIRI Insti. Of Dev. Studies, Total Cost Rs. 39,750.00
- SITE VISIT FOR STUDY OF SUBSOIL CHAR AT SAC & GH BUILDING AT GSVM KANPUR, Total Cost Rs. 14,708.00
- AERO DYNAMIC DESIGN OF WAF ROCKETS TRAJECTORY SIMULATION TRANSFER OF SOFTWARE PACKAGE AND TRAINING TO SCIENTISTS, funded by ARDE, Total Cost Rs. 8,59,560.00
- AIR QUALITY MODELLING, funded by Envirotech Instrument Pvt. Ltd., Total Cost Rs. 50,000.00
- GEOTECHNICAL INVESTIGATION AND DESIGN OF MACHINE FOUNDATION FOR NOSING PRESS, Total Cost Rs. 1,70,113.00
- FLIGHT MECHANICS FLIGHT TESTING 6DOF SIMULATION OF MISSILES, funded by Zeus Numerix, Total Cost Rs. 10,00,500.00
- CALIBRATION HYDRAULIC JACKS, Total Cost Rs. 67,416.00
- DEVELOPMENT OF DRUG DELIVERY PROCESS WITH WATER SOLUBLE CARBON NANOTUBE, funded by Crumoz Inc., Total Cost Rs. 12,60,000.00
- DESIGN AND CONSTRUCTION OF RCC OVERHEAD SERVICE RESERVOIRS SCRUTINY AND APPROVAL OF STRUCTURAL DESIGN, funded by Nirman, Total Cost Rs. 1,40,000.00
- INSPECTION OF SHOP, Total Cost Rs. 1,348.00
- SEEPAGE PROBLEM AT ASH DYKE, Total Cost Rs. 26,966.00
- EMBEDDED SYSTEM FOR IMPACT DETECTION, funded by Apna Tech., Total Cost Rs. 8,33,000.00
- DEVELOPMENT OF VIBRATION ANALYSIS & DIAGNOSTIC SOFTWARE FOR ROTATING MACHINERY, funded by Forbes Mashall, Total Cost Rs. 22,47,761.00
- OPTICAL GROUND WATER POLLUTION MONITORING, funded by CRC-CARE Pty Ltd., Total Cost Rs. 79,931.00
- DESIGN FOR THE CONSTRUCTION OF THE ROB AT KM 200+838 ON NH-28, funded by Nagarjuna Constructions Ltd., Total Cost Rs. 1,06,630.00
- DESIGN OF CONCRETE MIX M25, Total Cost Rs. 14,045.00
- DESIGN OF CONCRETE MIX M20 WITH PLASTICIZER, Total Cost Rs. 22,472.00
- ASSESSMENT OF PERFORMANCE OF ON BOARD WASTE TREATMENT SYSTEMS IN INDIAN RLY PASSANGER COACH TOILET, funded by RDSO Lucknow, Total Cost Rs. 5,26,958.00
- KIOSKWISE MODELING OF MARKET DATA, funded by Politis, Cyprus, Total Cost Rs. 1,40,000.00
- FEASIBILITY STUDY OF SUPERFINISHING PROCESS FOR SILICON MIRROR, funded by BARC, Mumbai, Total Cost Rs. 7,64,400.00
- WIND TUNNEL TESTING ON RIGID MODEL OF TOWER 200M, funded by LODHA, Mumbai, Total Cost Rs. 1,00,000.00
• COMPARATIVE FINITE ELEMENT ANALYSES OF VIBRATION LOOM STRUCTURE, Total Cost Rs. 56,382.00
• SITE VISIT REG. CONSULTANCY FOR ASH DYKE PROBLEM, funded by NTPC, Total Cost Rs. 13,484.00
• FEASIBILITY STUDY FOR ESTABLISHING P/M PRODUCTION FACILITY AND FERROUS AND NON-FERROUS ALLOYS, funded by Raychem RPG, Total Cost Rs. 2,50,000.00
• DESIGN OF CONCRETE MIX M20 USING ADMIXTURE, Total Cost Rs. 28,100.00
• CONSTRUCTION AT PLOT CP-8 LUCKNOW, funded by Lucknow Development Authority, Total Cost Rs. 18,629.00
• CONSULTANCY FOR GROUND IMPROVED AT KHALILABAD, Total Cost Rs. 20,250.00
• DESIGN OF CONCRETE MIX M20 AND M25 WITH PLASTICIZER, Total Cost Rs. 56,000.00
• DESIGN OF 1500 KL TANK ON 20M STAGING AT SWARANJAYANTI VIHAR KANPUR, Total Cost Rs. 20,000.00
• PROCESS OPTIMIZATION OF ERP AT RCI, funded by DRDO, Total Cost Rs. 99,000.00
• CONSULTANCY FOR DESIGN OF PICK UP WEIR, Total Cost Rs. 30,000.00
• YIELD IMPROVEMENT FROM 36T TUNDISH AT JSPL RAJGARH, funded by JPSL, Raigarh, Total Cost Rs. 13,00,000.00
• STRUCTURAL EVALUATION OF A PART OF EXISTING KAMLA TOWER BUILDING, Total Cost Rs. 61,282.00
• RFID READER ANTENNA DESIGN, Total Cost Rs. 10,000.00
• CONSULTANCY FOR GROUND IMPROVEMENT WORK AT SAGAR, Total Cost Rs. 20,250.00
• GEOTCH INVESTIGATION AND DESIGN OF LEFT SIDE MARIGINAL BUND APP ROAD AND SAFET MEASUREMENT RIVER GANGA, funded by BCD-3, Total Cost Rs. 5,84,980.00
• DESIGN AND ESTABLISHING PARAMETERS FOR LOOM PADS, funded by Lohia Sterling Ltd., Total Cost Rs. 5,000.00
• CALIBRATION OF HYDRAULIC JACKS, Total Cost Rs. 67,416.00
• FEASIBILITY STUDY REPORT FOR DEVELOPMENT OF DIGITAL BORE MEASURING INSTRUMENT, funded by Naval Armament Inspector, Total Cost Rs. 1,54,275.00
• DEVELOPMENT OF GUIDELINES ON SEISMIC DESIGN OF RAILWAY BRIDGES & TRAINING OF RAILWAY ENGINEERS, funded by RDSO, Total Cost Rs. 21,34,840.00
• SITE VISIT CONNECTION WITH SUBSOIL INVESTIGATION FOR HOUSING COMPLEX AT INDIRA NAGAR KANPUR, Total Cost Rs. 9,315.00
- **POWER QUALITY PROBLEM ANALYSIS**, funded by SAF Yeast Corp., Total Cost Rs. 7,08,598.00
- **DEVELOPMENT OF A LABOUR INTENSIVE ROAD DESIGN CONSTRUCTION AND EVALUATION MANUAL**, funded by UNDP, Total Cost Rs. 15,48,481.00
- **CHECKING DESIGN OF HOSPITAL BUILDINGS AT KANNAUJ**, funded by UPRNN Ltd., Total Cost Rs. 3,00,000.00
- **CONCRETE MIX DESIGN OF GRADE M35**, funded by UPRNN Ltd., Total Cost Rs. 1,17,978.00
- **DEVELOPMENT OF A CRYOGEL FILTER FOR LEUKOCYTE DEPLETION BIOTECHNICAL BLOOD TRANSFUSION**, funded by HLL, Total Cost Rs. 25,14,000.00
- **CALIBRATION OF PROVING RINGS**, Total Cost Rs. 22,472.00
- **TECHNOLOGY DEVELOPMENT FOR AGRICULTURAL EXTENSION AND OUTREACH**, funded by NAIP, Total Cost Rs. 1,31,95,000.00
- **RNAI NEMOATODE RESISTANCE (WHEAT)**, funded by Nemgenix, Total Cost Rs. 25,89,440.00
- **DELHI: 2010 COMMONWEALTH GAMES DATA NETWORK**, Total Cost Rs. 1,12,500.00
- **ANALYSIS OF DIAPHRAGM WALL AT ERNAKULAM, COCHIN**, funded by Vakil Mehta Sheth, Total Cost Rs. 56,180.00
- **DESIGN OF GUIDE BUND IN GOMTI RIVER**, funded by Irrigation Dept, Total Cost Rs. 3,98,316.00
- **EARTHQUAKE ENGINEERING LECTURES**, Total Cost Rs. 44,944.00
- **PRELIMINARY STUDY FOR EXTRACTION OF SILICON FROM QUARTZ AND OTHER**, funded by Shree Cement Ltd., Total Cost Rs. 3,59,000.00
- **ANALYSIS OF PARTICULATE SAMPLES FOR EC AND OC AND INTERPRETATION OF RESULT**, funded by IIT Bombay, Total Cost Rs., 6,56,687.00
- **REVIEW OF SEISMIC DESIGN CRITERIA FOR P&G FACILITIES AT BADDI IN HIMALCHAL PRADESH**, funded by Proctor & Gamble, Total Cost Rs., 77,947.00
- **VIBRATVOU PROBLEM IN FACTORY BUILDING**, Total Cost Rs., 12,500.00
- **CONCRETE MIX DESIGN OF GRADE M20 WITH CHEMICAL ADMIXURE**, Total Cost Rs., 22,472.00
- **SEISMIC ANALYSIS OF ESP SUPPORTING STRUCTURES**, funded by BHEL, Total Cost Rs., 8,42,700.00
- **PEER REVIEW OF SEISMIC RETROFITTING OF FACILITIES AT BADDI**, funded by Proctor & Gamble, Total Cost Rs. 3,97,182.00
- **CONSULTATION ON SEISMIC ANALYSIS OF METRO TUNNEL**, Total Cost Rs. 67,416.00
THEORETICAL STUDIES ON THE CONFIGURATION DESIGN OF FSAPDS STABILIZER UNIT STABILITY ANALYSIS AND SABOT SEPARATION DYNAMICS, funded by ARDE, Total Cost Rs. 9,79,464.00

ASIA PACIFIC TRADITIONAL MEDICINE AND HERBAL TECHNOLOGY NETWORK PROJECT, funded by NBRI, Total Cost Rs. 7,00,000.00

SECURE TRANSACTIONS BASED ON SMART CARDS, Total Cost Rs. 6,00,000.00

STUDY OF SUBSOIL FOR FOUNDATION OF AUTO FRETTAGE PLANT IN GUN SHOP AT OFC, funded by Indian Ordinance Factory, Total Cost Rs. 93,371.00

STUDY OF SUBSOIL FOR FOUNDATION OF UNIVERSAL MILLING MACHINE IN GUN SHOP AT OFC, funded by Indian Ordinance Factory, Total Cost Rs. 93,371.00

HYDROGEOLOGICAL INVESTIGATIONS FOR ASSESSMENT OF QUANTITY AND QUALITY OF GROUND WATER, funded by Johnson Matthey Chemicals India, Total Cost Rs. 6,75,000.00

Institute lectures conducted during the year 2007-08 are given below:


Mössbauer Spectroscopy in Space: Exploration of the Surface of Mars and its Moon Phobos with the miniaturized Spectrometer MIMOS II, by Dr Göstar Klingelhöfer, Institut für Anorganische und Analytische Chemie, Johannes Gutenberg-Universität, Mainz, Germany.

Whither Oxide Electronics?, by Prof. R. Ramesh, Department of Materials Science and Engineering and Department of Physics, University of California Berkeley, CA.

Energy In India Opportunities And Anxieties, Subir Raha, Distinguished Honorary Professor, IIT Kanpur and Executive Vice Chairman, Hinduja Group India.

Urban Infrastructure – a perspective, Mahesh. N. Buch, ABV IIITM Gwalior.

Energy Options for the future, by Dr. Ing.-habil. Manfred Groll, Visiting Faculty, Dept of Mechanical Engineering, IIT Kanpur, Farmarly University of Stuttgart, Germany.

The P<>NP Problem, by Manindra Agrawal, N Rama Rao Chair Professor, Department of Computer Science and Engineering, IIT Kanpur.

Ethical Values in Science and Technology, by Professor K L Chopra, Society for Scientific Values, Delhi.

Nanotechnology and Molecular Self Assembly and its interface with Microsystems: Fundamental and applications, by Shubhra Gangopadhyay, University of Missouri-Columbia.
• Deployment of technology at Shinsei Bank, by Dhananjay Dvivedi, Shinsey Bank, Tokyo.
• Interaction between Mathematics and Physics, by M. S. Narasimhan, TIFR/IISc, Bangalore.

Alumni Association Activities

Many initiatives were taken up by the Alumni Association in the year 2007-08.

New Activities:
   a) Alumni Magazine
      The first issue of the alumni magazine was published in the month of August 2007 and dispatched to all alumni. This initiative of IITKAA was fraught with many difficulties, not the least of which was that we had to raise a substantial sum of money to finance it.
   b) Redesigning of Election Software
      The election software used for online voting has been enhanced from Javascript to Java using Java Crypo API for generating public and private RSA key pairs for Election officer and Administrator. The new version is not only resource efficient more safe and secure but also very user friendly. The votes are completely anonymous and safe. Prof. Karnick (CSE) guided the development of the first version of this software. Prof. Moona of CSE dept. has guided the new version.
   c) Wiki an online
      The Alumni Association, IIT Kanpur launched IIT Wiki, an online forum that allows past and present students of IITK to freely create and edit web page content using any web browser. Users can share their thoughts, discuss, create their home pages and seek guidance from senior alumni through IIT Wiki. Users can customize their own areas, add their own pages, make links to their respective wing and department pages, create chapter websites, host pictures, start blogs, etc. The IIT Wiki is free for all students and alumni of IITK.
   d) Automation of AA Accounts
      We have also moved towards the automation of AA accounts by the use of Tally software.

Major Events/Activities during the year:

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-2007 had their event on 17th April 2007. Arvind Khotari, President, Student’s Gymkhana inaugurated the evening and delivered a farewell speech.

On this occasion the Director, Secretary, AA, Dean of Students’ Affairs and DRPG addressed the students and wished them all the best for their future. The evening concluded with a dinner party.

**Reunions at IITK:**
IITK alumni from around the globe participated in these events. The attendees usually included alumni awardees, entrepreneurs, bureaucrats and professionals from all walks of life.

The reunions were inaugurated by the Director, Dy. Director, Deans and Faculty in the Outreach building. The other activities included Lunch at the Director’s residence, Reunion Group Photograph, Campus tour, Felicitation of Alumni by the Director, Lunch at Students’ Hall, Open Session, Grand Reunion Dinner and New Year Celebration.

- The Silver Jubilee Reunion of the Class – of – 83 was held during 27th – 29th December 2007 with 64 alumni attending the event with their families.
- The 30th year reunion of the Class – of - 1978 was held from 2nd – 4th January 2008 with 15 alumni attending the reunion.
- The 35th -year Reunion of the Class – of – 1973 was held during 30th December 2007 – 1st January 2008, with 45 alumni participating in the event.
- Reunion of Class-of-82 was organized by Prof. Dheeraj Sanghi of IITK during 12th – 13th of January 2008

**Reunion outside IITK:**

**Distinguished Alumni Awards:**
The following are recipients of the Distinguished Alumni Awards in 2008 which were given on February 24, 2008.

**Prof. Ashok Misra** (BT/CHE/1968) Director, IIT Bombay
Dr Ravi Seth (BT/ME/1968) President Avaya Laboratory.
Mr. Harsh Manglik (BT/ME/1970) Chairman & Managing Director Accenture India
Prof. Ashok Sinha (BT/EE/1973) Chairman & Managing Director, Bharat Petroleum Corporation Limited.
Prof. Arup K. Chakraborty (BT/CHE/1983) Robert T. Haslam, Professor of Chemistry and Biological Engineering, Massachusetts Institute of Technology.

Satyendra K. Dubey Memorial Award:
The Satyendra K. Dubey Memorial Award was instituted in 2005 by IITK in the memory of the late Mr. Satyendra K. Dubey (BT/CE/1994/IITK) and his exemplary life.

Mr. Anubrotto Kumar Roy/ Dunu Roy (BT/MT/CHE/67/69/IITB) is the recipient of this award for the year 2007.

Souvenirs:
AA has a large collection of good IITK souvenirs which were sold to the alumni during reunions and other occasions.

Alumni Newsletter
The IIT Kanpur Alumni Association publishes its Newsletter every two months. Alumni Newsletter is a means to build bridges between IITK and its alumni and to cater to the various generations of alumni in India and abroad. Soft copies of the Newsletter are sent to more than 15,000 alumni, all current & former faculty and current students of IIT Kanpur.

Alumni Database:
The database of alumni has been continuously updated and maintained and we hope Batch Coordinators will help us further update it. We have email addresses of 15323 alumni, and postal addresses of 14757 out of a total of 22907 alumni. Of these, 9984 alumni are registered on the website.

Activities of Alumni Chapters:
Alumni Chapters are fairly active in India and abroad. Chapters are active in Delhi, Bangalore, Bombay, US West Coast and East Coast. However, we need more chapters to be created and/or become active.
Some of the activities during 2007-8:

- IITK Bangalore chapter held a get-together on 23rd June 2007. Almost 60 IITK alumni, along with their families, came together at “Aashirwad”, ITC Infotech campus for the alumni meet. Khem Aithani (MT/IME/83), President of the Bangalore Chapter and Pawan Kumar (BT/CE/69) spoke on the occasion.

- The first off-campus Distinguished Alumni Awards was held on June 24th 2007 in the grounds of the Indian Consulate in New York City. The recipients were Ambuj Goyal BT/EE/1978 and Ravi Akhoury BT/EE/1968. The awards were presented by by Her Excellency the Consulate General Neelam Deo and Prof. S.G. Dhande, IITK director. The ceremony was hosted by the IITK East coast Alumni Association.

- IIT 2007 - Global Alumni Conference was held in Silicon Valley, California, from July 6th - 8th. Over 3,500 people including Directors, faculty members and alumni of all IITs participated in this conference. IITK was represented at the event by Prof. S.G. Dhande, Director, and about 450 IITK alumni attending, making this the largest gathering of IITK alumni ever held outside India.

- The Delhi Chapter of IIT Kanpur organized an interaction session with the students joining IIT Kanpur on July 21st 2007. Over 100 alumni and their family members were present.


- The Pan IIT picnic was held on September 8th, 2007 at the Woodlands Park in Sunnyvale. About 700 alumni from all IITs attended the event, IITK’s alumni attendance was about 150.
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 Saturday; 9 a.m. to 5.30 p.m. on Sundays and Gazetted holidays, and for 24 hours during the three examinations each semester.

NEW ADDITIONS

The total collection of 9036 consisting of 3442 books, 5134 bound journals and 460 theses (on CD) was added during 2007-2008. A budget of Rs.1 crore was utilized for procurement of books. A few books were also procured in the interdisciplinary interface of science, religion and consciousness against ‘Library Special Book Endowment Fund (LSBEF)’, donated by Ms. Irma Johnson, one of the ex-Library Advisors, MIT, USA.

SUBSCRIPTION TO PERIODICALS / DATABASES

The periodicals budget of Rs.5.75 crores for 2007-2008 was utilized to subscribe to 1324 titles of which 442 are print, 858 are print+online and 24 are only online. The Library added 5134 bound volumes to its periodicals holdings. Besides, 4011 books and 750 old periodicals were also bound.

An additional special grant of Rs.1.38 crores was utilized for procurement of following digital back files and online access to titles /databases:

A. Digital back files:
   3. Royal Society of Chemistry journals -- 68 tiles (1841 to 2004)
   4. Elsevier journals (General Physics, Mathematics, Environmental Sciences, Earth & Planetary Sciences.)
   5. Emerald journals – Management titles
7. JSTOR

B. Online access to journals/databases:
   1. EBSCO (Business Source Complete, SocIndex with full text, Econlit with full text, Humanities Intl. Complete)
   2. Six Nature titles
   3. Five Cell Press titles
   4. Shared access to 143 Wiley titles (33 subscribed by IITK and 107 titles subscribed by IIT Delhi/ Bombay/ Roorkee and IISc)

E-RESOURCES THROUGH INDEST-AICTE

As a core member to the INDEST-AICTE, IITK academic community is entitled to access 20 full-text e-resources and to 6 bibliographic databases. From 2008 ASTM standards and journals are being subscribed through INDEST-AICTE.

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 2007-2008, 44380 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.

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-AICTE members and other technical institutions & universities. During 2007-2008, ILL (OUT) requests for 763 articles/chapters were received and
processed from the host of Institutions, whereas ILL (IN) requests for 106 articles/chapters were made to other libraries.

Consultation facility of the library was extended to 1300 external users including 85 NICEE programme participants.

DIGITAL LIBRARY INITIATIVES
The following digital library initiatives continue were added afresh:
1. CD Submission of Theses: 460 theses (on CD) were added during 2007-2008.
2. Access to Electronic Theses and Dissertations (ETD)
Access to our ETD has been limited to intranet only. Now efforts are underway to host our ETD collection on the web as decided by the Institute Senate. A server (mirror) with capacity of one TB has been procured for the purpose.
3. 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 continue to be added as a second subset to the IRs. The work is still in progress.
4. CD-ROM Database
A CD-ROMs database consisting of accompanying material to books/journals has been finally created, accessible through the library OPAC "(catalog search) under the head CD-ROMs".
5. New Library Software Package
Migration from the iit-KLAS to LibSys of LSPremia, a web centric software package, has been in progress during 2007-08. Initially all the modules of both the software were running parallel for couple of months. The migration of database to the LibSys is final and the work for Circulation module is running through LibSys whereas the work for the rest of the modules of the library is in progress. The Serials module has been taken afresh in the new package.
It has been possible to provide the following new services through the new package:
- Alert services in the areas of Renewal of books, Overdue books, Reserved books collect notice.
- Login based services: Online Renewal and Reservation of Books, initially for the faculty and transaction History of issue/return.
- Online Public Access Catalog (OPAC) services: access to different databases, viz. Books, Conference Proceedings, Journals including New Arrivals of Current Issues and Holdings, CD-ROMs, Textbooks and Standards.
Work-in-progress:
- Self issue / return facility through smartcard, initially for faculty only.
- Online book indent request.
- Harvesting of Theses database

Research Papers Published in Journals:
1. ICT and AIDS literacy: a challenge for information professional in India. 

Research Papers Published in Conference Proceedings
6. CERLIM: Libraries Without Walls 7 @ Aegean island, Greece- A visit to remember! Library Hi Tech News, 24, 9/10 2007, 8-10, Maitrayee Ghosh.

Conference Attended Outside IIT Kanpur
9. 6th International Caliber- 2008 jointly organized by the INFLIBNET Centre, Ahmedabad and University of Allahabad on the theme “From Automation to transformation’ held at the University of Allahabad on 28th, 29th Feb and 1st Mar 2008. Participant, Rekha Bharti.
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**

| 1. | SUN V440 | 4* 1.28 GHz UltraSpare IIIi processors, 8 GB RAM, 6TB SAN storage with tape backup facility. |
## Compute Servers

<table>
<thead>
<tr>
<th></th>
<th>Server Type</th>
<th>Specifications</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></th>
<th>Server Type</th>
<th>Specifications</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>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></td>
<td>Description</td>
<td>Processor/Configuration</td>
</tr>
<tr>
<td>---</td>
<td>------------------------------------</td>
<td>--------------------------------------------------</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.
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) 07 candidates in M.Tech. and 02 in Ph.D. were admitted to various departments. The Curriculum Development Cell (CDC) approved 12 text book writing proposals in addition to the 18 projects which had been sanctioned earlier. The work for both proposals is under progress. During the last financial year 05 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. Gauthama &amp; Dr. B. Basu</td>
<td>MME</td>
<td>Ultra-fine Grained Materials and Nanocomposites</td>
<td>May 12-16, 2007</td>
</tr>
<tr>
<td>2</td>
<td>Dr. P Venkitanarayanan &amp; Dr. S Khandekar</td>
<td>ME</td>
<td>Modern Experimental Techniques in Mechanics of Fluids and Solids</td>
<td>May 07-11, 2007</td>
</tr>
<tr>
<td>3</td>
<td>Dr. Bikramjit Basu</td>
<td>MME</td>
<td>Materials for Biomedical Applications</td>
<td>May 07-11, 2007</td>
</tr>
<tr>
<td>4</td>
<td>Dr. B P Pundir</td>
<td>ME</td>
<td>Advances in Vehicle Emission Control Technology</td>
<td>May 21-25, 2007</td>
</tr>
<tr>
<td>5</td>
<td>Dr. V K Jain</td>
<td>ME</td>
<td>Micromachining</td>
<td>June 18-23, 2007</td>
</tr>
<tr>
<td>6</td>
<td>Dr. Prabhat Munshi</td>
<td>ME</td>
<td>Nuclear Power Engineering</td>
<td>July 09-14, 2007</td>
</tr>
<tr>
<td>8</td>
<td>Dr. Peeyush Mehta</td>
<td>IME</td>
<td>Supply Chain Management</td>
<td>July 16-20, 2007</td>
</tr>
<tr>
<td>9</td>
<td>Dr. D P Mishra</td>
<td>AE</td>
<td>Spray and Combustion</td>
<td>Dec. 03-08, 2007</td>
</tr>
</tbody>
</table>
### Self-financing Courses

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Coordinator (s)</th>
<th>Dept.</th>
<th>Title of the Short Term Course</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.</td>
<td>Dr. RRK Sharma</td>
<td>IME</td>
<td>Project Management for Engineering Executives of RBI, Govt. of India</td>
<td>April 02-06, 2007</td>
</tr>
<tr>
<td>4.</td>
<td>Dr. B. Deo</td>
<td>MME</td>
<td>Process Control in Steelmaking</td>
<td>April 18-20, 2007</td>
</tr>
<tr>
<td>5.</td>
<td>Dr. B. Deo</td>
<td>MME</td>
<td>Position and Thermal Tracking of Steel Ladles</td>
<td>April 21, 2007</td>
</tr>
<tr>
<td>6.</td>
<td>Dr. B V Phani</td>
<td>SIDBI</td>
<td>Solving Challenges of Chemistry Through Analyses</td>
<td>May 1 – July 1, 2007</td>
</tr>
<tr>
<td>7.</td>
<td>Dr. Nitin Kaistha</td>
<td>ChE</td>
<td>Practical Chemical Process Control</td>
<td>May 07-11, 2007</td>
</tr>
<tr>
<td>13.</td>
<td>Dr. S K Agrawal</td>
<td>CSE</td>
<td>Programme Optimization for Multicore Architectures</td>
<td>July 02-07, 2007</td>
</tr>
<tr>
<td>No.</td>
<td>Name</td>
<td>Department</td>
<td>Title of the Workshop/Seminar</td>
<td>Dates</td>
</tr>
<tr>
<td>-----</td>
<td>--------------------------</td>
<td>------------</td>
<td>------------------------------------------------------------------------------------------------</td>
<td>--------------------</td>
</tr>
<tr>
<td>15</td>
<td>Dr. Avinash Kr. Agarwal</td>
<td>ME</td>
<td>Advances in IC Engines and Alternative Fuels</td>
<td>Sept. 13-17, 2007</td>
</tr>
<tr>
<td>19</td>
<td>Dr. Siddhartha Panda</td>
<td>CY</td>
<td>Plasma Applications 2007</td>
<td>Nov. 3-4, 2007</td>
</tr>
<tr>
<td>23</td>
<td>Mrs. Soma Sengupta &amp; Mr. Khaleeq Ahmed</td>
<td>CC</td>
<td>Oracle based Application Development</td>
<td>Nov. 20-24, 2007</td>
</tr>
<tr>
<td>24</td>
<td>Dr. S N Singh</td>
<td>EE</td>
<td>Course on Best Practices in Transmission and Distribution of Power</td>
<td>Nov. 27-29, 2007</td>
</tr>
<tr>
<td>25</td>
<td>Dr. P K Kalra</td>
<td>EE</td>
<td>Course on Audio and Video: Processing, Coding, Standards and Display</td>
<td>Nov. 26 – Dec. 06, 2007</td>
</tr>
<tr>
<td>29</td>
<td>Dr. Onkar Dikshit</td>
<td>CE</td>
<td>Geographical Information System (GIS)</td>
<td>Jan. 03-13, 2008</td>
</tr>
</tbody>
</table>
## Workshops/Conferences/Seminars

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Coordinator(s)</th>
<th>Dept.</th>
<th>Title of the Conference/Workshop/Symposium</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Dr. P M Prasad</td>
<td>HSS</td>
<td>IPR Workshop 2007</td>
<td>March 31-April 1, 2007</td>
</tr>
<tr>
<td>2.</td>
<td>Dr. Somenath Biswas</td>
<td>CSE</td>
<td>International Workshop on Computational Biology</td>
<td>April 02-04, 2007</td>
</tr>
<tr>
<td>3.</td>
<td>Dr. P K Kalra</td>
<td>EE</td>
<td>Brain Storming Meeting of IIR -2008</td>
<td>April 05-07, 2007</td>
</tr>
<tr>
<td>4.</td>
<td>Dr. Anoop Singh</td>
<td>IME</td>
<td>National Workshop on Project</td>
<td>April 19-22,</td>
</tr>
<tr>
<td>No.</td>
<td>Name(s)</td>
<td>Department</td>
<td>Event Description</td>
<td>Date</td>
</tr>
<tr>
<td>-----</td>
<td>--------------------------------</td>
<td>------------</td>
<td>------------------------------------------------------------------------------------</td>
<td>----------------</td>
</tr>
<tr>
<td>5.</td>
<td>Dr. V Raghuram &amp; Mr. TVK Gupta</td>
<td>ME</td>
<td>Current Manufacturing Technologies</td>
<td>May 17-19, 2007</td>
</tr>
<tr>
<td>7.</td>
<td>Dr. H C Verma</td>
<td>PY</td>
<td>Teachers’ Workshop on Innovative Physics Teaching</td>
<td>June 08-13, 2007</td>
</tr>
<tr>
<td>11.</td>
<td>Dr. H. Wanare</td>
<td>PY</td>
<td>Symposium on Coherent Control of Optical Phenomena</td>
<td>July 9-10, 2007</td>
</tr>
<tr>
<td>15.</td>
<td>Dr. A Upadhyaya</td>
<td>MME</td>
<td>Workshop on Recent Advances in Powder Metallurgical Processing of Ferrous Alloys and Composites for Ordinance Applications</td>
<td>Sept. 25, 2007</td>
</tr>
<tr>
<td>17.</td>
<td>Dr. A Ghosh</td>
<td>ME</td>
<td>Workshop on Futuristic Shaping Technologies at Meso, Micro and Nanoscales</td>
<td>Oct. 09-12, 2007</td>
</tr>
<tr>
<td>No.</td>
<td>Name(s)</td>
<td>Department</td>
<td>Event Details</td>
<td>Date</td>
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<td>-----------------------------</td>
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<td>--------------------</td>
</tr>
<tr>
<td>22</td>
<td>Dr. P Gupta</td>
<td>CSE</td>
<td>ACM ICPC (Asia Region –Kanpur Site) Contest</td>
<td>Oct. 27-28, 2007</td>
</tr>
<tr>
<td>24</td>
<td>Dr. Mukesh Sharma</td>
<td>CE</td>
<td>Workshop on Air Pollution Inventory and Health</td>
<td>Dec. 04-06, 2007</td>
</tr>
<tr>
<td>26</td>
<td>Dr. S Kureshi</td>
<td>EE</td>
<td>Workshop on Synthesis of Digital Circuit</td>
<td>Dec. 09-22, 2007</td>
</tr>
<tr>
<td>27</td>
<td>Dr. Kamal K. Kar</td>
<td>ME</td>
<td>International Conference on Advanced Composite Materials and Processing</td>
<td>Dec. 11-14, 2007</td>
</tr>
<tr>
<td>29</td>
<td>Drs. L. Krishnan &amp; A K Sinha</td>
<td>HSS</td>
<td>XVII Annual Conference of National Academy of Psychology</td>
<td>Dec. 16-20, 2007</td>
</tr>
<tr>
<td>31</td>
<td>Drs. Anil Seth &amp;</td>
<td>CSE &amp;</td>
<td>Workshop on Second Indian</td>
<td>Jan. 14-26, 2007</td>
</tr>
</tbody>
</table>
Mohua Banerjee | MA | Winter School on Logic | 2008
---|---|---|---
32. | Dr. Sudhir K. Jain & Dr. D. Sanghi | CE & CSE | Workshop on Alumni Relations and Fund Raising: A New Paradigm for Excellence | Jan. 09-10, 2008
34. | Dr. P Gupta | CSE | Workshop on Biometrics | Jan. 27 - Feb. 1, 2008
37. | Dr. P. Munshi | ME | Workshop CT 2008: Tomography | Feb. 16-18, 2008
38. | Dr. T V Prabhakar | CSE | ODAALS Workshop | Mar. 04-06, 2008

CENTER FOR CREATIVE WRITING AND PUBLICATION

2. Dr. Adam Klein, New York, delivered a talk on Creative Writing on 18 February 08.
3. Dr. Lalit Joshi of Allahabad University delivered a talk on Engaging the Past: The Filmmaker and the Historian on 7 March 08.
4. Dr. Suhitra Mathur conducted weekly literary discussions on varied authors.
The staff training unit has been imparting training programs for the institute’s staff members and for the staff members of other institutes. During this year, the staff training unit arranged following training programs:

### 1-IN-CAMPUS TRAINING PROGRAMS

#### A-REFRESHER PROGRAMS

<table>
<thead>
<tr>
<th>SN</th>
<th>CADRE</th>
<th>PROGRAM</th>
<th>PARTICIPANTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Jr. Suprintendents,</td>
<td>Refresher</td>
<td>20 –</td>
</tr>
<tr>
<td>2</td>
<td>Jr/Sr Assistants,</td>
<td>Refresher</td>
<td>35 –</td>
</tr>
<tr>
<td>3</td>
<td>Sr. Tech. Assistants,</td>
<td>Refresher</td>
<td>30 –</td>
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</table>

#### B-MOTIVATIONAL PROGRAMS

<table>
<thead>
<tr>
<th>SN</th>
<th>CADRE</th>
<th>PROGRAM</th>
<th>PARTICIPANTS</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Group-A/Officers</td>
<td>Soft skill Development</td>
<td>25 –</td>
</tr>
<tr>
<td>2</td>
<td>Suprintendents</td>
<td>Leadership Development</td>
<td>30 –</td>
</tr>
</tbody>
</table>

#### C- NATIONAL WORKSHOPS

<table>
<thead>
<tr>
<th>SN</th>
<th>CADRE</th>
<th>PROGRAM</th>
<th>PARTICIPANTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>STA/TA of other IIT’S IIIT’S/ NIT’S</td>
<td>Safety Management</td>
<td>26 –</td>
</tr>
</tbody>
</table>

### 2 - OFF-CAMPUS TRAINING PROGRAMS

The unit nominated officers/employees to various training institute for attending specialized training programs;

<table>
<thead>
<tr>
<th>SN</th>
<th>CADRE</th>
<th>PARTICIPANTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Group-A-Officers</td>
<td>-7-</td>
</tr>
<tr>
<td>2</td>
<td>Group-B- Employees</td>
<td>-2-</td>
</tr>
</tbody>
</table>
Due to non approval of further training programs by the Registrar, the staff training unit has been rendered non functional since October 2007.

SC/ST and OBC CELL


The cell consists of Prof. Arvind K Sinha (Deprt. of Humanities & Social Sciences), Liaison Officer (w.e.f. October 20, 2006) and Shri R R Dohare, Superintendent & Incharge, 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.

In a meeting, wherein the following were present, the under mentioned decisions were taken:

1. Prof. S.G. Dhande Director
2. Prof. Kripa shanker Dy. Director
3. Prof. A.K. Sinha Liaison Officer
4. Shri S.S. Kashalkar Registrar
5. Shri R.K. Sachan Dy. Registrar (Admin.)

(1) Liaison Office will also look after the matter of students belonging to various reserved category i.e. SC, ST, OBC and PH etc.
(2) Special drive for recruitment of reserved category be taken up every year.
(3) Recruitment roster will be submitted to Board every year for information.
(4) Liaison Officer will propose the programmes for reserved category of the Institute for empowering & helping them. Opportunities and training etc. will also be made and implemented for upliftment of such categories.
(5) Grievance will be readdressed by Liaison Officer after analysis and input from concerned sections/ departments of the Institute.
(6) To assist Liaison Office, an Advisory Committee be constituted under chairmanship of Liaison Officer.

In compliance, the following Advisory Committee has already been constituted to assist the Liaison Officer with regard to the issues related to SCs/ STs/ OBCs and PWDs.

1. Liaison Officer (Prof. A.K. Sinha) Chairman
2. Dy. Registrar (Admin.) (Shri R.K. Sachan) Member
3. Supdt. (Recruitment & Liaison Office) (Shri R.R. Dohare) Member
4. One Student Representative* Member
   (President, Student Gymkhana or Nominee)
5. One representative from Group B, C & D Staff* Member
   (Shri Praveen Gonade, Superintendent)
6. One representative from Group-A Staff* Member
   (Shri M.K. Diwaker, Assistant Registrar)
   * shall be nominated for one year

Terms of reference
1. The Committee will serve as a critical observer regarding implementation of Govt. of India directives issued from time to time.
2. The Committee shall propose promotional schemes for upliftment of the reserved category community for improvement of the situation.
3. Any personal grievance, if referred by the Institute Administration, shall be examined, analysed and conclusions shall be submitted to the Administration.
4. Providing input on case to case basis where the matter is referred by the National/ State bodies to the Institute.
5. To promote/ undertake sociological research of the situation related to such community in order to formulate further course of action to improve the situation.
6. The role of Liaison Officer will remain the same as per the directives of GOI.

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 far as possible efforts would be made to provide adequate representation of SCs, STs and OBCs in 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. 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 Sushil Kumar Kamal (SC), Junior Technician, Department of M.M.E..

(ii) One additional increment in the pay-scale of Rs. 3200-85-4900 given to Shri Raja Babu (OBC), Junior Technician, Department of Chemistry.

(iii) One additional increment in the pay-scale of Rs.4500-125-7000 given to Shri Vipin Kumar Katiyar (OBC), Pharmacist, Health Centre.

**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 Advs.** (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 Vacancies</th>
<th>Total</th>
<th>Published in</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2007</td>
<td>Assistant Placement Officer</td>
<td>8000-13500</td>
<td>-</td>
<td>1</td>
<td>All Editions of Dainik Jagran, Dainik Bhaskar,</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>SC ST OBC PH UR</td>
<td></td>
<td>Times of India, Hindustan Times, University</td>
</tr>
<tr>
<td></td>
<td>Assistant R &amp; D Officer</td>
<td>8000-13500</td>
<td>-</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Physical Trg. Instructor</td>
<td>5500-9000</td>
<td>-</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sr. Library Information Assistant</td>
<td>5500-9000</td>
<td>1</td>
<td>1 UR</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.

**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.
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.

**Inclusion of SC/ST Member:**

One SC/ST 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>Post</th>
<th>Base Pay</th>
<th>2 UR</th>
<th>1 UR</th>
<th>SC</th>
<th>Vacancies</th>
</tr>
</thead>
<tbody>
<tr>
<td>Technical Assistant</td>
<td>5500-9000</td>
<td>2</td>
<td>4</td>
<td>1</td>
<td>13</td>
</tr>
<tr>
<td>TA (Translation)</td>
<td>5500-9000</td>
<td>-</td>
<td>-</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Staff Nurse</td>
<td>5000-8000</td>
<td>-</td>
<td>-</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Pharmacist</td>
<td>4500-7000</td>
<td>-</td>
<td>-</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Junior Assistant</td>
<td>3200-4900</td>
<td>1</td>
<td>-</td>
<td>2</td>
<td>5</td>
</tr>
<tr>
<td>Junior Technician</td>
<td>3200-4900</td>
<td>3</td>
<td>5</td>
<td>7</td>
<td>16</td>
</tr>
<tr>
<td>2/2007 Homoeopathic Consultant</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>1</td>
</tr>
<tr>
<td>AFRO Placement Cell</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Asst. Security Officer</td>
<td>5500-9000</td>
<td>-</td>
<td>1</td>
<td>-</td>
<td>1</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>6</td>
<td>7</td>
<td>12</td>
<td>5</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>For Selection</th>
<th>Total 21 Selection Committee meetings:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>11 S/C meeting, wherein SCST/OBC representatives included</td>
</tr>
<tr>
<td></td>
<td>08 S/C meeting, wherein OBC representatives included</td>
</tr>
<tr>
<td></td>
<td>02 S/C meeting, wherein SCST representatives included</td>
</tr>
<tr>
<td>For Assessment</td>
<td>No assessment committee meeting held during the period</td>
</tr>
</tbody>
</table>

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>SC/ST</td>
</tr>
<tr>
<td></td>
<td>As per Reservation</td>
</tr>
<tr>
<td>Type-IA</td>
<td>-</td>
</tr>
<tr>
<td>Type-1B</td>
<td>4</td>
</tr>
<tr>
<td>Type-I</td>
<td>2</td>
</tr>
<tr>
<td>Type-II</td>
<td>3</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>No reservation</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:
One case of Shri Giriraj Singh, Technical Assistant (PF No.4577) was taken up by the Liaison Office for redressal of his grievance [who joined the Institute on 13.8.1990] Shri Singh had completed 8 years of his service on 12.8.1998 for his 1st assessment
according to R&CD; but due to implementation of V-CPC w.e.f. 01.5.1998, he was not granted his 1st assessment in the higher pay-scale of Rs.2000-3200 (revised to Rs.6500-10500). Shri Singh had sound health/body upto 1998; unfortunately he met with a paralysis attack during 1999 and got physically disabled for which he has a certificate of physical disability measuring 60%, issued by the competent authority, which has already been submitted by him in the Administration Section. He also belongs to Scheduled Caste category.

His case was dealt by the Administration Section in the light of Recruitment & Career Progression Scheme ((RCPS), but he did not qualify the bench mark prescribed for qualifying the assessment and accordingly the “result of assessment” was intimated to him as “Not qualified”. Thereafter he met in the Liaison Office for redressal of his grievance. In terms of RCPS, he is eligible for his 1st assessment w.e.f. 01.7.2003. Shri Singh, so far, has completed more than 17½ years of his service at the same level where he joined the Institute.

The Liaison Office submitted a request to the Dy. Registrar (Admin.) for consideration of his case in the light of Section-47 (Non-discrimination in Government employment) of “The Persons with Disabilities (Equal Opportunities, Protection of Rights and Full Participation) Act, 1995” which came into existence on January 01, 1996, wherein it is mentioned that “No promotion shall be denied to a person merely on the ground of his disability: Provided that the appropriate Government may, having regard to the type of work carried on in any establishment, by notification and subject to such conditions, if any, as may be specified in such notification, exempt any establishment from the provisions of this section”.

In the light of above, on humanitarian grounds, the matter is under sympathetic consideration of the Institute’ Higher-ups for his 1st assessment.

Any Caste falsification brought to notice is also followed up by the Liaison Office. 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>
<td>-</td>
<td>-</td>
<td>-</td>
<td>26</td>
<td>26</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th></th>
<th>SC</th>
<th>ST</th>
<th>OBC</th>
<th>PH</th>
<th>GEN</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Retirement</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
<td>-</td>
<td>03</td>
</tr>
<tr>
<td>Deaths</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Resignation</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>12</td>
<td>12</td>
<td>03</td>
</tr>
<tr>
<td>V/Retirement</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>05</td>
<td>05</td>
<td>03</td>
</tr>
<tr>
<td>C/Retirement</td>
<td>-</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>
<td>-</td>
</tr>
<tr>
<td>Deputationists repatriated</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Termination</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Dismissal</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>46</td>
<td>46</td>
<td>03</td>
</tr>
</tbody>
</table>

#### B: Non-Academic:

<table>
<thead>
<tr>
<th>Area(s)</th>
<th>SC</th>
<th>ST</th>
<th>OBC</th>
<th>PH</th>
<th>GEN</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appointments</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a) On permanent basis</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Through open Recruitment)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>b) On compassionate grounds</td>
<td>1</td>
<td>-</td>
<td>1</td>
<td>-</td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>c) On deputation basis</td>
<td>1</td>
<td>-</td>
<td>1</td>
<td>-</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>d) On contract for 5 yrs</td>
<td>5</td>
<td>4</td>
<td>9</td>
<td>4</td>
<td>13</td>
<td>35</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>7</td>
<td>4</td>
<td>11</td>
<td>4</td>
<td>16</td>
<td>42</td>
</tr>
<tr>
<td>Retirement</td>
<td>12</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>52</td>
<td>66</td>
</tr>
<tr>
<td>Deaths</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Resignation</td>
<td>3</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td>-</td>
<td>7</td>
</tr>
<tr>
<td>V/Retirement</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>C/Retirement</td>
<td>-</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>
<td>-</td>
</tr>
<tr>
<td>Deputationists repatriated</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Termination</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Dismissal</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>15</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td>53</td>
<td>72</td>
</tr>
</tbody>
</table>
Assessment under RCPS

Detail of Employees assessed under RCPS during 2007-08

<table>
<thead>
<tr>
<th>SL No.</th>
<th>Pay Scale</th>
<th>SC</th>
<th>ST</th>
<th>OBC</th>
<th>UR</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Previous</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Present</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>2650-4000</td>
<td>5</td>
<td>-</td>
<td>-</td>
<td>6</td>
<td>11</td>
</tr>
<tr>
<td>2</td>
<td>3050-4590</td>
<td>4</td>
<td>-</td>
<td>-</td>
<td>7</td>
<td>11</td>
</tr>
<tr>
<td>3</td>
<td>3200-4900</td>
<td>1</td>
<td>1</td>
<td>-</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>4</td>
<td>4000-6000</td>
<td>2</td>
<td>-</td>
<td>-</td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>5</td>
<td>4500-7000</td>
<td>1</td>
<td>-</td>
<td>-</td>
<td>16</td>
<td>17</td>
</tr>
<tr>
<td>6</td>
<td>5000-8000</td>
<td>1</td>
<td>-</td>
<td>-</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>7</td>
<td>5500-9000</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>8</td>
<td>6500-10500</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>9</td>
<td>7500-12000</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>14</td>
<td>1</td>
<td>-</td>
<td>47</td>
<td>62</td>
</tr>
</tbody>
</table>

The Institute has awarded “fitment” to the employees of Group ‘B’, ‘C’ & ‘D’ under RCPS during 2007-08, as detailed below:-

Detail of Employees awarded “fitment” under RCPS during 2007-08
(Only pay-scale changed w.e.f. the date of joining or 01.5.1998, whichever is later)

<table>
<thead>
<tr>
<th>SL No.</th>
<th>Pay Scale</th>
<th>SC</th>
<th>ST</th>
<th>OBC</th>
<th>UR</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Previous</td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
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<td></td>
<td></td>
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<tr>
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<td>4000-6000</td>
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<td>-</td>
<td>-</td>
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</tr>
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<td>2</td>
<td>4500-7000</td>
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<td>-</td>
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<td>2</td>
</tr>
<tr>
<td>3</td>
<td>5000-8000</td>
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<td>-</td>
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<td>2</td>
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</table>

Detail of Employees awarded “fitment” under RCPS during 2007-08 (only)
(Only designation changed w.e.f. the date of joining or 01.5.1998, whichever is later)

<table>
<thead>
<tr>
<th>SL No.</th>
<th>Pay Scale</th>
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<th>ST</th>
<th>OBC</th>
<th>UR</th>
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<td>Present</td>
<td></td>
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<tr>
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<tr>
<td>2</td>
<td>4500-7000</td>
<td>-</td>
<td>-</td>
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<td>1</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>5000-8000</td>
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</tr>
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</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 01.04.2008:

<table>
<thead>
<tr>
<th></th>
<th>SC</th>
<th>ST</th>
<th>OBC</th>
<th>GEN</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Teaching</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Recruited through DOFA Office</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Academics</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Recruited through Recruitment Section</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Teaching</td>
<td></td>
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<td></td>
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<td>Recruited through DOFA Office</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Non-Teaching</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Recruited through Recruitment Section</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>1</td>
<td>-</td>
<td>-</td>
<td></td>
<td></td>
</tr>
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</table>

B. Existing Strength of Non-Academic Staff as on 01.04.2008:

<table>
<thead>
<tr>
<th>Group</th>
<th>SC</th>
<th>ST</th>
<th>OBC</th>
<th>GEN</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>5</td>
<td>15.15%</td>
<td>0</td>
<td>4</td>
<td>24  33</td>
</tr>
<tr>
<td>B</td>
<td>56</td>
<td>21.74%</td>
<td>5</td>
<td>31</td>
<td>229 321</td>
</tr>
<tr>
<td>C</td>
<td>44</td>
<td>23.16%</td>
<td>5</td>
<td>36</td>
<td>105 190</td>
</tr>
<tr>
<td>D</td>
<td>44</td>
<td>24.18%</td>
<td>0</td>
<td>10</td>
<td>128 182</td>
</tr>
<tr>
<td>Total</td>
<td>149+14*</td>
<td>20.95%</td>
<td>10</td>
<td>81</td>
<td>486 726+14*</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Group/Stream/Mode</th>
<th>SC</th>
<th>ST</th>
<th>OBC</th>
<th>GEN</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANR</td>
<td>2</td>
<td>14.29%</td>
<td>0</td>
<td>3</td>
<td>9  14</td>
</tr>
<tr>
<td>ANU</td>
<td>2</td>
<td>22.22%</td>
<td>0</td>
<td>0</td>
<td>7  9</td>
</tr>
<tr>
<td>ATR</td>
<td>1</td>
<td>25.00%</td>
<td>0</td>
<td>1</td>
<td>2   4</td>
</tr>
<tr>
<td>ATU</td>
<td>0</td>
<td>0.00%</td>
<td>0</td>
<td>0</td>
<td>6  6</td>
</tr>
<tr>
<td>Total of Group 'A'</td>
<td>5</td>
<td>15.15%</td>
<td>0</td>
<td>4</td>
<td>24 33</td>
</tr>
<tr>
<td>BNR</td>
<td>3</td>
<td>11.54%</td>
<td>2</td>
<td>6</td>
<td>15 26</td>
</tr>
<tr>
<td>BNU</td>
<td>23</td>
<td>22.55%</td>
<td>0</td>
<td>0</td>
<td>79 102</td>
</tr>
<tr>
<td>BTR</td>
<td>17</td>
<td>16.83%</td>
<td>2</td>
<td>25</td>
<td>57 101</td>
</tr>
<tr>
<td>BTU</td>
<td>13</td>
<td>14.13%</td>
<td>1</td>
<td>0</td>
<td>78 92</td>
</tr>
<tr>
<td>Total of Group 'B'</td>
<td>56</td>
<td>17.45%</td>
<td>5</td>
<td>31</td>
<td>229 321</td>
</tr>
<tr>
<td>CNR</td>
<td>14</td>
<td>20.59%</td>
<td>1</td>
<td>18</td>
<td>26.47 35 68</td>
</tr>
<tr>
<td>CNU</td>
<td>9</td>
<td>36.00%</td>
<td>1</td>
<td>0</td>
<td>15 25</td>
</tr>
<tr>
<td>CTR</td>
<td>11</td>
<td>17.19%</td>
<td>1</td>
<td>18</td>
<td>34 64</td>
</tr>
<tr>
<td>CTU</td>
<td>10</td>
<td>30.30%</td>
<td>2</td>
<td>0</td>
<td>21 33</td>
</tr>
<tr>
<td>Total of Group 'C'</td>
<td>44</td>
<td>23.16%</td>
<td>5</td>
<td>36</td>
<td>105 190</td>
</tr>
<tr>
<td>DR</td>
<td>7</td>
<td>24.14%</td>
<td>0</td>
<td>10</td>
<td>34.48 12 29</td>
</tr>
<tr>
<td>DU</td>
<td>37</td>
<td>24.18%</td>
<td>0</td>
<td>0</td>
<td>116 153</td>
</tr>
<tr>
<td>Total of Group 'D'</td>
<td>44</td>
<td>24.18%</td>
<td>0</td>
<td>10</td>
<td>128 182</td>
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<tr>
<td>CLEANERS</td>
<td>14*</td>
<td>0</td>
<td>0</td>
<td></td>
<td>0  14*</td>
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</table>
B. Existing Strength of Account-II Employees as on 01.04.2008:

Recruited Through DORD Office

<table>
<thead>
<tr>
<th>Group</th>
<th>SC</th>
<th>ST</th>
<th>OBC</th>
<th>GEN</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>-</td>
<td>-</td>
<td>1</td>
<td>5</td>
<td>6</td>
</tr>
<tr>
<td>C</td>
<td>1</td>
<td>-</td>
<td>-</td>
<td>14</td>
<td>15</td>
</tr>
<tr>
<td>D</td>
<td>3</td>
<td>1</td>
<td>6</td>
<td>3</td>
<td>13</td>
</tr>
<tr>
<td>Total</td>
<td>4</td>
<td>1</td>
<td>7</td>
<td>22</td>
<td>34</td>
</tr>
</tbody>
</table>

C. Existing Strength of Mess Employees as on 01.04.2008:

Recruited through COW Office

<table>
<thead>
<tr>
<th>Group</th>
<th>SC</th>
<th>ST</th>
<th>OBC</th>
<th>GEN</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>-</td>
<td>-</td>
<td>1</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>C</td>
<td>-</td>
<td>-</td>
<td>33</td>
<td>58</td>
<td>91</td>
</tr>
<tr>
<td>D</td>
<td>13+6*</td>
<td>-</td>
<td>35</td>
<td>64</td>
<td>104+6*</td>
</tr>
<tr>
<td>Total</td>
<td>13+6*</td>
<td>-</td>
<td>35</td>
<td>64</td>
<td>112+6*</td>
</tr>
</tbody>
</table>

* 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 2007-08 in various programmes/ disciplines at the Institute is given below:

Number of UG students who actually joined the following programmes during the 2007-08 I-Semester

<table>
<thead>
<tr>
<th>Programmes</th>
<th>B.Tech.</th>
<th>Registration Data in the 2007-8-I Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>SC</td>
<td>ST</td>
</tr>
<tr>
<td>AE</td>
<td>4</td>
<td>1</td>
</tr>
<tr>
<td>BSB-E</td>
<td>3</td>
<td>1*</td>
</tr>
<tr>
<td>ChE</td>
<td>6</td>
<td>1*</td>
</tr>
<tr>
<td>CE</td>
<td>8</td>
<td>4*</td>
</tr>
</tbody>
</table>
Programmes | Registration Data in the 2007-8-I Semester
--- | ---
**BT-MT** | SC | ST | GEN | Total
AE | 1 | 1 | 5 | 07
ChE | 1 | 0 | 8 | 9
CE | 2 | 0 | 12 | 14
CSE | 3 | 2 | 20 | 25
EE | 3 | 2 | 16 | 21
ME | 3 | 0 | 13 | 16
**Total** | 13 | 5 | 74 | 92

*Students admitted through Preparatory course*

Programmes | Registration Data in the 2007-8-I Semester
--- | ---
**MSc(5 yr)** | SC | ST | GEN | Total
Chemistry | 1* | 0 | 10 | 11
Economics | 1+3* | 0 | 18 | 22
Maths | 1 | 1* | 22 | 24
Physics | 1 | 0 | 14 | 15
**Total** | 7 | 1 | 64 | 72

*Students admitted through Preparatory course*

Programmes | Registration Data in the 2007-8-I Semester
--- | ---
**MSc(2 yr)** | SC | ST | GEN | Total
Chemistry | 4 | 0 | 20 | 24
Mathematics | 4 | 1 | 20 | 25
Statistics | 0 | 0 | 15 | 15
Physics | 3 | 1 | 13 | 17
**Total** | 11 | 2 | 68 | 81

Programmes | Registration Data in the 2007-8-I Semester
--- | ---
**MS-PH(dual)** | SC | ST | GEN | Total
Physics | 1 | 0 | 5 | 6
**Total** | 1 | 0 | 5 | 6
### Registration Data of M. Tech./MBA/M.Des. students of 2007-08-I Semester

<table>
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<tr>
<th>Dept</th>
<th>GN</th>
<th>SC</th>
<th>ST</th>
<th>Total</th>
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</thead>
<tbody>
<tr>
<td>AE</td>
<td>40</td>
<td>06</td>
<td>01</td>
<td>47</td>
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<tr>
<td>CHE</td>
<td>50</td>
<td>05</td>
<td>-</td>
<td>55</td>
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<tr>
<td>CE</td>
<td>90</td>
<td>08</td>
<td>-</td>
<td>98</td>
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<tr>
<td>EE</td>
<td>151</td>
<td>09</td>
<td>03</td>
<td>163</td>
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<tr>
<td>ME</td>
<td>93</td>
<td>06</td>
<td>01</td>
<td>100</td>
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<tr>
<td>MME</td>
<td>48</td>
<td>03</td>
<td>01</td>
<td>52</td>
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<tr>
<td>CSE</td>
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<td>87</td>
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<tr>
<td>MSP</td>
<td>22</td>
<td>02</td>
<td>-</td>
<td>24</td>
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<tr>
<td>IME</td>
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<td>01</td>
<td>-</td>
<td>23</td>
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<td>72</td>
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<td>-</td>
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<td>09</td>
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<td>-</td>
<td>09</td>
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<tr>
<td>EEM</td>
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<td>03</td>
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<td>31</td>
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<td>TOTAL</td>
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<td>830</td>
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### Registration Data of Ph D students of 2007-08-I Semester

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<th>ST</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>AE</td>
<td>34</td>
<td>02</td>
<td>-</td>
<td>36</td>
</tr>
<tr>
<td>CHE</td>
<td>32</td>
<td>05</td>
<td>01</td>
<td>38</td>
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<tr>
<td>CE</td>
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<td>01</td>
<td>-</td>
<td>34</td>
</tr>
<tr>
<td>EE</td>
<td>56</td>
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<tr>
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<td>01</td>
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<td>01</td>
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<td>11</td>
</tr>
<tr>
<td>MSP</td>
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<td>03</td>
<td>-</td>
<td>12</td>
</tr>
<tr>
<td>STA</td>
<td>06</td>
<td>-</td>
<td>-</td>
<td>06</td>
</tr>
<tr>
<td>IME</td>
<td>18</td>
<td>02</td>
<td>-</td>
<td>20</td>
</tr>
</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 1996. 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 Superintendent and two technical assistants (Translation). The Rajbhasha Prakoshtha is effective in creating awareness of Hindi among the Institute employees. “Sansthan Rajbhasha Karyanvayan Samiti” constituted by the Director, monitors and provides guidelines to the Rajbhasha Prakoshtha in its planning and performance. The Rajbhasha Prakostha performs various activities like organization of Hindi Diwas, Hindi workshop, and holds meetings for promoting the atmosphere of Rajbhasha in the Institute round the year.

The Rajbhasha Prakoshtha has adopted the following policies:

1. Entire correspondence with Group D employees are done in Hindi.
2. All Hindi letters are replied to in Hindi.
3. All routine forms and the heading of Registers have been printed bilingually in most of the department of the Institute.
4. The name plates, office stamps, sign boards, letters heads, and envelopes etc. have been made bilingual. Three Assistants have been trained in Hindi typing under the Hindi training programme organized by the Hindi Shikshan Yojana Kanpur. Similarly two Stenographers have been trained in Hindi Stenography under the scheme.
5. Regular class of Prabodh, Praveen & Pragya for the Non Hindi speaking employees have already been started. Four Non Hindi speaking employees have been trained in Prabodh and Praveen and two in Pragya.

The act and the Statutes of the Institute have been made bilingual.
The Annual Report of the Institute for 2006-2007 and the Audit Report 2006-2007 received from the Account Section/AG,UP were translated into Hindi and 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 Nagar Rajbhasha Karyanvayan Samiti in time.

In compliance with the directives of Official Language Department, New Delhi, Hindi week was observed by conducting various competitions and on 14 Sept. 2007 Hindi Diwas samaroh was held in the Lecture Hall complex, in which winners of the 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) Translation competition (Non Hindi Speaking Employees)
c) Noting Drafting competition
d) Hindi essay competition
e) Poetry recitation competition

Winner of above competitions were as under:

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

1. Moh. Naeem Ahmed (First)
2. Shri Arvind Kumar Panday (Second)
3. Shri Hemant Kumar (Third)

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

1. Shri Gautam Karmakar (First)
2. Shri Binus (Second)
3. Shri Digambar Urkude (Third)

**C. Noting and Drafting Competition**

1. Shri Somnath Danayak (First)
2. Shri Hari Singh (Second)
3. Shri Ram Lakhan    (Third)

D. Essay Competition

1. Shri Sanjeev Kumar   (First)
2. Shri Ram Lakhan    (Second)
3. Shri Ravi Kant Panday    (Third)

E. Poetry Recitation Competition

1. Shri Ram Lakhan   (First)
2. Shri Somnath Danayak   (Second)
3. Shri Hari Singh    (Third)

During the year 2006-2007 about 139 letters from Directorate, 255 letters from Registrar’s office, 320 letters / circulars from Administration Section and 235 letters from were issued in Hindi.

Rajbhasha Prokoshtha is dedicated to 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 Resources & Development, Govt. of India.

MEDIA TECHNOLOGY CENTER

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

The 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 five major engineering and science disciplines.

The main objective of NPTEL program is to enhance the quality of engineering education in the country by developing curriculum based video and web courses. This is being carried out by seven IITs and IISc Bangalore as a collaborative project. In the
first phase of the project, supplementary content for 129 web courses in engineering/science and humanities have been developed. Each course contains materials that can be covered in depth in 40 or more lecture hours. In addition, 110 courses have been developed in video format, with each course comprising of approximately 40 or more one-hour lectures. In the next phase other premier institutions are also likely to participate in content creation.

Five major engineering disciplines have been covered in this project so far (NPTEL Phase I) at the undergraduate (B.E./B.Tech) level.

1. Civil Engineering
2. Computer Science and Engineering
3. Electrical Engineering
4. Electronics and Communication Engineering
5. Mechanical Engineering

In addition, a number of core curriculum courses common to all engineering programmes such as mathematics, physics, chemistry, management, electronics, language etc. have also been included. Students and teachers of Information Technology and Computer Applications will also find a number of courses from the above that are useful for their studies or for supplementing their lectures. The project in its first phase (2003-2007) has been fully supported by a grant from the Ministry of Human Resources and Development.

Currently the centre is involved in converting video based courses into appropriate streaming format and has collaborated with google to create a free YouTube library of engineering courses. There are more than 60 courses online already and the numbers are constantly increasing.

The video lectures can be directly accessed at http://youtube.com/iit. The web courses can be accessed at http://nptel.iitm.ac.in/home.php.

Students of the Design Program and the Department of Humanities and Social Sciences 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.

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

FINANCE

The Ministry of Human Resources & Development (MHRD) has released Rs. 7480.00 lakh as Non-Plan Grant and 5200.00 lakh as Plan Grant in the financial year 2007-2008.

NON-PLAN

The total receipt under Non-Plan during the financial year 2007-2008 from Ministry of Human Resources & Development, Government of India is Rs. 7480.00 lakh. The Institute has also generated its own Internal Receipts of Rs. 2244.74 lakh, which includes Rs. 738.73 lakh as student fees, Rs. 500.84 lakh interest earned on investments/bank balances and Rs. 1005.17 lakh as other miscellaneous income.

The Institute has also withdrawn an amount of Rs. 70.00 lakh from Endowment fund account of the Institute for Non Plan activities during the financial year 2007-2008.

The Total Non Plan expenditure during the financial year 2007-2008 comes out to Rs. 9823.77 lakh against the total earnings of Rs. 9794.74 lakh.

PLAN

A total receipts under Plan during the financial year 2007-2008 is Rs. 5200.00 lakh grant-in-aid under Plan from the MHRD, Government of India.

The total expenditure under Plan has been restricted to Rs. 5200.00 lakh. This expenditure includes Rs. 2749.00 lakh on Building & Works and Central AC Facility, Rs. 1637.22 lakh on Non-Consumable purchases including Equipment, Furniture & Fixtures etc., Rs. 813.78 Lakh on Library Books, Digitalization of Library and Periodicals & Journals.
### 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>
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<tbody>
<tr>
<td>1</td>
<td>Non- Plan</td>
<td>9794.74</td>
<td>9823.77</td>
</tr>
<tr>
<td>2</td>
<td>Plan</td>
<td>5200.00</td>
<td>5200.00</td>
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<td>3</td>
<td>GPF/CPF</td>
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<td>761.70 (Non Plan)*</td>
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<tr>
<td>4</td>
<td>JEE</td>
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<td>418.41 (Non Plan)*</td>
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<td>5</td>
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<td>206.77</td>
<td>198.60 (Non Plan)*</td>
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<td></td>
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<td>1.58 (Plan)</td>
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<tr>
<td>6</td>
<td>GATE (JMET)</td>
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<td>8.90 (Non Plan)*</td>
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<td>Research &amp; Development</td>
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<td>721.38 (Non Plan)</td>
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<td>30.32 (Plan)</td>
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<td>22.78 (Non Plan)*</td>
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<td>9.13 (Plan)</td>
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<td>9</td>
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<td>395.63</td>
<td>401.79 (Non Plan)*</td>
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<td>10</td>
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<td>70.26</td>
<td>70.82 (Non Plan)*</td>
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<td>11</td>
<td>Pension Hall Management</td>
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<td>58.63 (Non Plan)*</td>
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<td>12</td>
<td>Student Gymkhana</td>
<td>33.07</td>
<td>31.68 (Non Plan)*</td>
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<td>13</td>
<td>Visitors Hostel</td>
<td>65.37</td>
<td>65.20 (Non Plan)*</td>
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<tr>
<td>14</td>
<td>Endowment Fund</td>
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<td>916.71 (Non Plan)</td>
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<td>15</td>
<td>GATE (JAM)</td>
<td>154.76</td>
<td>81.65 (Non Plan)*</td>
</tr>
<tr>
<td>16</td>
<td>New Pension Scheme</td>
<td>34.80</td>
<td>0.01 (Non Plan)*</td>
</tr>
</tbody>
</table>

#### Endowment Report

The total amount of donations received during 2007-08 was Rs. 5.96 crore contributed by 1017 donors as compared to Rs. 5.41 crore contributed by about 623 donors in 2006-07.

Many new Faculty Chairs, Student’s Scholarships and Awards have been instituted during the financial year 2007-08.
Partial travel support from the donations enabled 58 IITK students’ participation in International Conferences during 2007-08. The financial support ranged from Rs. 20,000 to Rs. 40,000 per student.

Partial travel support from the donations enabled 7 new faculty members’ participation in International Conferences during 2007-08.

In the year 2007-2008 cash awards for publishing research papers in reputed international journals were given to 171 students of IITK.

The following expenditure was made during 2007-08 for various DRPG activities.

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Project Title</th>
<th>Total Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-</td>
<td>Opportunity College Project</td>
<td>4,18,407.00</td>
</tr>
<tr>
<td>2-</td>
<td>Development of Campus School</td>
<td>6,600.00</td>
</tr>
<tr>
<td>3-</td>
<td>To Support schools in Campus</td>
<td>30,000.00</td>
</tr>
<tr>
<td>4-</td>
<td>2007 SURGE Program</td>
<td>8,89,193.00</td>
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<tr>
<td>5-</td>
<td>Cash Award to Students</td>
<td>19,06,500.00</td>
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<tr>
<td>6-</td>
<td>Travel Support to New Faculty</td>
<td>3,00,000.00</td>
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<tr>
<td>7-</td>
<td>Travel Support to Students</td>
<td>19,53,466.00</td>
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<tr>
<td>8-</td>
<td>General Corpus Fund</td>
<td>3,17,861.00</td>
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<tr>
<td>9-</td>
<td>Patent Filing</td>
<td>15,12,339.00</td>
</tr>
<tr>
<td>10-</td>
<td>Contract Workers Welfare Relief fund</td>
<td>5,00,000.00</td>
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<tr>
<td>11-</td>
<td>Prabhu Goel Chair</td>
<td>4,15,926.00</td>
</tr>
<tr>
<td>12-</td>
<td>Prabhu Goel Research Centre for Computer Security</td>
<td>42,20,537.00</td>
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<tr>
<td>13-</td>
<td>N. Rama Rao Chair</td>
<td>9,78,472.00</td>
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<td>14-</td>
<td>New CSE Building Maintenance Project</td>
<td>89,312.00</td>
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<tr>
<td>15-</td>
<td>Initiation Grant to New Faculty in CSE</td>
<td>64,304.00</td>
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<tr>
<td>16-</td>
<td>Infosys Fellowship</td>
<td>15,000.00</td>
</tr>
<tr>
<td>17-</td>
<td>Research I-Foundation</td>
<td>76,29,247.00</td>
</tr>
<tr>
<td>18-</td>
<td>Research and Outreach Activities in earthquake engineering</td>
<td>8,95,863.00</td>
</tr>
</tbody>
</table>

**Total** | **2,21,43,027.00**
FACILITIES TO STUDENTS

1. RESIDENTIAL ACCOMMODATION FOR STUDENTS

Halls of Residence

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 bed room apartments (SBRA) and (ii) students who are wards of campus residents, are provided room accommodation in the Halls of Residence 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-V, Hall-VII to Hall-IX and two for girls (GH-1) and GH-2 i.e. Hall- VI with total capacities of 3700 and 480 for boys and girls respectively. In addition, there is accommodation for 83 students in single bedroom apartments (SBRA).

The Halls have single and double-seater rooms. Presently, most of the senior undergraduate and all post graduate students are given single-seater 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 seater 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. 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.
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>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>06</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 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 2007-08.


<table>
<thead>
<tr>
<th>Undergraduate Scholarships</th>
<th>I</th>
<th>II</th>
<th>III</th>
<th>IV</th>
<th>V</th>
</tr>
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<tbody>
<tr>
<td>MCM @ Rs. 1000/- p.m. with Freeship</td>
<td>102</td>
<td>100</td>
<td>89</td>
<td>99</td>
<td>09</td>
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<tr>
<td>Freeship</td>
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<td>23</td>
<td>12</td>
<td>06</td>
<td>02</td>
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<tr>
<td>Free Basic mess plus Pocket Allowance @ Rs.250/- p.m.</td>
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<td>60</td>
<td>31</td>
<td>33</td>
<td>4+1</td>
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<td>Lalit Narain Das Memorial Scholarship</td>
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<td>01</td>
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<tr>
<td>Kinra Scholarships</td>
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<td>01</td>
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<tr>
<td>Indian Women’s Association-Bonn Scholarships</td>
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<td>Neeraj Kapoor Memorial Scholarships</td>
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<tr>
<td>Ram Rajendra Malhotra Educational Society Scholarships</td>
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<tr>
<td>Pt. Balajee G. Hardiker Scholarship</td>
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<tr>
<td>Dr. V. Rajaraman Scholarships</td>
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<tr>
<td>Scholarship Name</td>
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<td>---------------------------------------------------------------</td>
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<tr>
<td>Dr. D. R. Bhagat Scholarships</td>
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<tr>
<td>Arakere &amp; Karen Vasudev Scholarships</td>
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<tr>
<td>Govinda &amp; Indira Srikanth Scholarship</td>
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<tr>
<td>Anil and Reshma Nigam Scholarship</td>
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<tr>
<td>Anurag Bartaria Scholarship</td>
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<tr>
<td>Prof. Netarlal Kapur Scholarships</td>
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<tr>
<td>Vasudeo Laxman Sahasrabuddhe Vaidya Scholarship</td>
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<td>P. D. Murti Memorial Scholarship</td>
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<tr>
<td>Nita Goyal &amp; Ashish Gupta Scholarships</td>
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<td>Baljit &amp; Nirmal Dhindsa Scholarship</td>
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<td>Sri Temasek @ IITK Scholarship</td>
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<td>Smt. Jagat Kaur Memorial Scholarship</td>
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<td>Sri Jamuna Das &amp; Basanti Gupta Scholarship</td>
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<td>Shanti Devi &amp; Onkar Nath Maewal Scholarship</td>
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<td>Romesh Chandra Memorial Scholarship</td>
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<td>BGM Foundation</td>
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<tr>
<td>Dharmavati Garg Scholarship</td>
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<tr>
<td>Bishaber Gupta and Anguri Gupta Scholarship</td>
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<tr>
<td>Yogendra Nath and Sushma Gupta Scholarship</td>
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<tr>
<td>Harish and Sushila Chandra Scholarship</td>
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<td>Shiv Kumari Shukla Scholarship</td>
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<td>Pratima Ghosh Memorial Scholarship</td>
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<tr>
<td>Tapan Kumar and Swapna Bandhyopadgyay Scholarship</td>
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<tr>
<td>Sagnik Asis Ray Scholarship</td>
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<tr>
<td>Aedunuthula Prasad Memorial Scholarship</td>
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<tr>
<td>Bimlavati and Naval Kishore Kapur Scholarship</td>
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<td>01</td>
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</tr>
<tr>
<td>Jasmine and Mohiuddin Scholarship</td>
<td>--</td>
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<tr>
<td>Dr. Gurucharan Singh Kainth Scholarship</td>
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</tr>
<tr>
<td>District Society Welfare Scholarship, Kanpur</td>
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<tr>
<td>State Merit Scholarship, Government of A.P.</td>
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<tr>
<td>Post Metric Scholarship, Gwalior</td>
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<tr>
<td>NTS Scholarships</td>
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<td>23</td>
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</tr>
</tbody>
</table>

Annual Report 2007-08
TABLE-I (B): Scholarships for M. Sc. (2-year)/ M. Sc. - Ph. D. Dual degree 2006-07

<table>
<thead>
<tr>
<th>Scholarship/Board/Institute</th>
<th>1-year</th>
<th>2-year</th>
</tr>
</thead>
<tbody>
<tr>
<td>MCM @ Rs. 1000/- p.m. with Freeship</td>
<td>33</td>
<td>20</td>
</tr>
<tr>
<td>Freeship</td>
<td>--</td>
<td>02</td>
</tr>
<tr>
<td>Free Basic Mess Plus Pocket Allowance @ Rs.250/- p.m.</td>
<td>6</td>
<td>04+02+01</td>
</tr>
<tr>
<td>Dr. R. C. Srivastava Memorial Scholarship</td>
<td>--</td>
<td>01</td>
</tr>
<tr>
<td>ACC fellowship</td>
<td>01</td>
<td>--</td>
</tr>
<tr>
<td>Smt. Durga Devi Memorial Scholarship</td>
<td>--</td>
<td>01</td>
</tr>
</tbody>
</table>

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 is given to those SC/ST category students whose parents income does not exceed Rs. 2,00,000/- per annum in the previous financial year.

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>
</tbody>
</table>
2. Purchase of Stationary items and payment of photocopying charges or purchase of books

<table>
<thead>
<tr>
<th></th>
<th>5,000.00</th>
<th>1,000.00</th>
</tr>
</thead>
</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 admission for a one year preparatory course scheme.

All the SC/ST category students get tuition fee waiver irrespective of their parents 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 these activities. Table-III shows the awards and prizes given during 2007-08. 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>
<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’s Gold Medal</td>
<td>1</td>
<td>--</td>
</tr>
<tr>
<td>2.</td>
<td>Director’s Gold Medal</td>
<td>1</td>
<td>--</td>
</tr>
<tr>
<td>3.</td>
<td>General Proficiency Medal</td>
<td>19</td>
<td>4</td>
</tr>
<tr>
<td>4.</td>
<td>Proficiency Medal</td>
<td>16</td>
<td>2</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 (M. Tech)</td>
<td>--</td>
</tr>
<tr>
<td>7.</td>
<td>Prof. Adidam S. R. Sai Memorial Gold Medal</td>
<td>1 (M. Tech)</td>
<td>--</td>
</tr>
<tr>
<td>No.</td>
<td>Award Name</td>
<td>Category</td>
<td>Notes</td>
</tr>
<tr>
<td>-----</td>
<td>------------------------------------------------------------------</td>
<td>----------</td>
<td>-------</td>
</tr>
<tr>
<td>8.</td>
<td>Prof. Adidam Sri Ranga Sai Memorial Medal</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>9.</td>
<td>Ratan Swarup Memorial Prize</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>10.</td>
<td>Banco Foundation Prize (ME)</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>11.</td>
<td>Dr. Shanker Dayal Sharma Medal</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>12.</td>
<td>Prof. Vijay Mahajan Gold Medal</td>
<td></td>
<td>1 (MBA)</td>
</tr>
<tr>
<td>13.</td>
<td>Dr. S. D. Bokil Memorial Medal</td>
<td></td>
<td>1 (M. Tech)</td>
</tr>
<tr>
<td>14.</td>
<td>Sangeeta Pradhan Memorial Medal</td>
<td></td>
<td>--</td>
</tr>
<tr>
<td>15.</td>
<td>Batra Gold Medal</td>
<td></td>
<td>--</td>
</tr>
<tr>
<td>16.</td>
<td>IEEE/Pedes' 96 Award</td>
<td></td>
<td>1 (M. Tech)</td>
</tr>
<tr>
<td>17.</td>
<td>Bhagwani Devi Maheshwari Gold Medal</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>18.</td>
<td>Syngenta Excellence Award</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>19.</td>
<td>Tata Consultancy Services Prize</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>20.</td>
<td>Prof. Bal Deva Upadhayaya Memorial Gold Medal</td>
<td></td>
<td>1 (M. Tech)</td>
</tr>
<tr>
<td>21.</td>
<td>Mars G. Fontana Prize (MME)</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>22.</td>
<td>Prof. J. N. Kapur Prizes</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>23.</td>
<td>N. Balakrishnan Award</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>24.</td>
<td>Smt. P. K. Subbulakshmi Memorial Award</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>25.</td>
<td>Gargi, Kritika &amp; Maitreyi Awards</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>26.</td>
<td>Sridhar Memorial Prize (EE)</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>27.</td>
<td>Ajai Agarwal Memorial Prize (CE)</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>28.</td>
<td>Jayesh Memorial Award</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>29.</td>
<td>Dr. Sangeeta Goel Memorial Award</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>30.</td>
<td>Notional Prizes (UG)</td>
<td></td>
<td>105</td>
</tr>
<tr>
<td>31.</td>
<td>Notional Prizes (PG)</td>
<td></td>
<td>41 (M. Tech.)</td>
</tr>
<tr>
<td>32.</td>
<td>O. P. Bajaj Memorial Award</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>33.</td>
<td>Amit Saxena Memorial Award</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>34.</td>
<td>Aditya Birla group of Industries Scholarships</td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>35.</td>
<td>O.P. Jindal Scholarship</td>
<td></td>
<td>04</td>
</tr>
<tr>
<td>36.</td>
<td>INLAKS Scholarship</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>37.</td>
<td>Goldman Sachs Global Leaders Program</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>39.</td>
<td>IITK Excellence Award for Leadership</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>40.</td>
<td>IITK Excellence Award for Art &amp; Cultural</td>
<td></td>
<td>1 (M. Tech)</td>
</tr>
<tr>
<td>41.</td>
<td>IITK Excellence Award in Community Services</td>
<td></td>
<td>1</td>
</tr>
</tbody>
</table>

5. ACTIVITIES OF STUDENTS’ GYMKHANA

As mentioned above, academic activities are only one facet of student life at IIT Kanpur. Our students actively participate in various extra and co-curricular activities focused towards the holistic development of their mind and body. The year 2007-2008 also saw a very active calendar in the form of various activities.

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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 Bombay. The team finished overall fourth in the Men’s’ General championship and in Women’s Championship, IITK was overall second. In Inter IIT IITK team 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 Tae-kwon-do Club is an active club during the year. 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.

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 a workshop on Introduction to Gardening.

Udghosh’07

Udghosh’07, which was organized from 20th to 23rd September’07, 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 657 from various colleges from the country. The size of the IITK contingent was around 150.

All the standard Inter IIT competitive events were organized except weight lifting. Informals such as Chess, Carom 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.

A dedicated team of volunteers for 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 discipline during the conduct of the festival.

The opening ceremony was done in a unique manner by inviting Shri Alok Kumar (DM, Kanpur) being the Chief Guest, and Shri Rajeev Sabarwal (SSP, Kanpur) 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 impressive fashion.
There was a cultural show by the school children from Guru Har Rai public school and Sri Guru Nanak public school. The fire cracker show in the end of the ceremony opened udghosh’07.

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

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’07**

Antaragni ‘07 was conducted from the 25th to 28th October 2007. Nearly 80 colleges and 1400 participants from across the country visited the institute to participate in the four day event. In many ways, Antaragni ‘07 was bigger and better than ever before. Firstly, Antaragni managed to get the highest amount of funds the festival has ever seen in the 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 "Indian Legislature and Judiciary: Shaking hands or locking horns?" where well known panelists Hon'ble Justice V N Khare, Mr. Prashant Bhushan, Hon'ble Justice N K Mehrotra were invited, which helped spread the Antaragni fever all over the country like never before.

Antaragni ‘07 kick started on 25th October 2007 at 6 PM when Deputy Director Dr Kripa Shankar, Festival Advisor Dr Amit Ray and Dean of Student Affairs Dr Prawal Sinha lighted the inauguration lamp. The opening ceremony also had a performance of Alumni along with our own students. 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. With the multi-cuisine food court in attendance until the wee hours of the morning, the SAC remained alive 24/4. The days 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 its preliminary round in the morning and its final on the same day. A Salsa + Merengue workshop, too, was held.
Day three saw new competitive events kick off, with the quizzes also hitting the scene. Prelims for Mridaksh, the personality contest, were held. 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. The day ended with Synchronicity, which, to put it simply, rocked. This year it was a step further "Poets of The Fall", newest sensation on the European rock scene performed in Synchronicity.

Day four was one of the biggest days as it had the famous Pakistani Singer Atif Aslam as the person who was performing. There was a tremendous response from the all corners. In fact we could not accommodate all the people who wanted to attend the show. Even though there were some small unwanted incidents but still this was one of the major achievements in this Antaragni.

A few firsts:
1. 2000 participants from outside the campus.
2. Synchronicity by Poets of the Fall.
3. Atif Aslam performed in Blitzkrieg.
4. Phenomenal media coverage on national television.

The home team put up an exceptional overall performance.

**FILM FESTIVAL**
**Umang 08**

Film and Media Council (FMC) organized its Annual Film Festival Umang’08 from 18th to 20th January 2008.

Some of the salient features of Umang’08 were as follows:

- Apart from formal opening, it had the honorable presence of Dr. Chandraprakash Dwivedi, writer, director and actor of *Chanakya (TV series 1990)*, acclaimed to be the best ever Indian TV series by the critics. He also holds with him the credentials of directing the monumental film *Pinjar*. Also, the show would be featured Mr. Atul Tiwari, writer - *Mission Kashmir, Netaji Subhash Chandra Bose - The Forgotten Hero*.
- For the first time, movies were screened at three places ie. Auditorium, Outreach Auditorium and Open Air Theater (OAT - in Audi ground).
- More than 35 movies were screened in Umang 08. 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 student 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.

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

**ALFAAZ 2008**

A new called ‘Alfaaz’ has been added to the list of festivals in 2007. This event focused on all kind of literary activities and was meant for wide variety of persons, be it a writer, a speaker, a poet, or even a listener.

**TECHNICAL FESTIVAL**

**TECHKRITI 2008**

Techkriti 2008 was successfully conducted from Feb 14th to 17th 2008. It witnessed an audience of over 2000 external students present during the festival itself and at least 10000 more who participated through online contests. The audience was given a plethora of options to choose from and there was something in it for everyone. Be it the contests ranging from innovations in hardware to bio-business plans, be it the lectures delivered by international figures including a number of Nobel laureates, be it the professional shows or be it the fun events, Techkriti 2008 was buzzing with excitement and enthusiasm. There was a panel discussion on Global Climatic Changes and Environmental Pollution which had tremendous response from both students and faculty. Overall, the festival has been widely hailed as the best in IIT Kanpur ever and has set immensely high standards that will be indeed difficult to emulate.

Hamfest, which enticed all hams across India, was conducted as a major event in Techkriti ’08. CRANES officially sponsored HAMFEST. Promotion of Techkriti was done in Alumni Association meetings. Notably the response from the Delhi Chapter was very encouraging. Several Alumni were contacted and they showed immense interest in funding Techkriti not only for 2008 but also in the coming years.

In short this year Techkriti was the biggest ever Techkriti which had lot of events to remember for life.

**6. PHYSICAL ACTIVITIES (CPA)**

Compulsory Physical Education activities (CPA) are senate approved courses for four-year B.Tech. five year M.Sc.(Integrated ) and five yer B.Tech.-M.Tech.(Dual) degree students. These courses are offered in the first two semesters of the academic program under the course numbers PE-101 & PE 102. In both the courses, there are two components, namely:
S.No. | PE Classes | Schedule  | Timing          
--- | --- | --- | --- 
01. | Physical Exercise | Morning | One hour per week 
02. | Personality development activities | Evening exercise | Two hour 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 is necessary for passing the courses.

All students undergo total three hours of activities per week. The students have to opt for one of the following fifteen Personality Development activities categorized into two streams:

**A. GAMES & SPORTS**

1. Athletics   Boys & Girls 
2. Badminton   Boys & Girls 
3. Cricket     Only boys 
4. Hockey      Boys only 
5. Table-Tennis Boys & Girls 
6. Tennis      Boys & Girls 
7. Football    Only boys 
8. Swimming    Boys and girls 
9. Basketball  Boys and Girls 
10. Volleyball  Boys only 
11. Weight lifting Boys only 

**B. Other Personality Development Activities**

Yoga, NSS, Tae-Kwon-Do, NCC

The students who want to opt for an activity under Games & Sports can give preferences for at most two games. The final allotment of activity will be based on trial(s) of the opted game(s), provided they are selected in trials, students who are allotted an activity under games & sports will have to undergo three hours of games per week. The remaining students (those allotted an activity under Other Personality Development Activities) will undergo Physical Exercises once a week for an hour out of three hours per week. For these students, remaining two hours will be for the allotted personality development activity. It has been observed that increasing number of fresh students are not fit physically. This affects their overall personality and development. In view of this the PE section has advised a new structure for the physical exercises. Under this structure, all fresh students will be subjected to an AIFA test to evaluate their current state of fitness. Each student will be given a performance card, which will trace their improvement.
through the semester. Marks will be given based on the fitness evaluation. This grade will be decided on marks obtained.

**Physical Exercise**

Participation is once in a week. This runs during August-November in the morning. Jogging, long distance run, light weight training, games & athletics are undertaken for at least twelve weeks. The initial fitness profiling of the students is done during the orientation period:

**Personality Development Activities**

Participation will be thrice/twice a week (for Games & Sports thrice a week, for the other personality Development Activities twice a week). Selection trials are held from July 28 to August 01 to fill up the seats for different activities.

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 steam is as follows. These numbers may change, if circumstances so require:

1. NSS (Coordinator, Dr. H.C.Verma)            Total Seats=30
   NSS will be conducted twice a week (two sessions of an hour’s duration each) with a total of twenty four hours of activity during the semester. Seats will be filled on the basis of first come first serve on the day of Registration.

2. YOGA (Coordinator: Dr. K.K.Saxena)        Total Seats=30
   Yoga will be conducted twice a week (two sessions of an hour’s duration each) with a total of twenty four hours of activity during the semester. Seats will be filled on the basis of test/interview conducted by the Coordinator.

3. TAE-KWON-DO (Coordinator: Dr. Satyendra Kumar)  Total Seats=30
   Tae-Kwon-Do will be conducted twice a week (two sessions of an hours duration each) with a total of twenty four hours of activity during the semester. Seats will be filled on the basis of first come first serve on the day of registration.

4. NCC (Coordinator): Commanding Officer, NCC) Total seats=No limit
   NCC activities will be conducted once/twice a week with a total of twenty four hours of activity during the semester. For NCC no trial will be held. Any student, except foreign nationals, can take NCC There is no limit on number of seats.

5. Games & Sports (Coordinator, Mr. Vishram Yadav)  Total Seats=250(206+44 girls)
Games & Sports will be held thrice a week (three sessions of an hour’s duration each) with a total of 136 hours of activity in the semester. Seats will be filled through selection trials conducted by the coordinator. Allotment of activities will be done within 10 days from the registration.

Students failing to get a seat in the opted activity join NCC straightway without any loss of time.

<table>
<thead>
<tr>
<th>S No.</th>
<th>Games &amp; Sports</th>
<th>Boys</th>
<th>Girls</th>
<th>Trial timings</th>
<th>Trial Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Athletics</td>
<td>20</td>
<td>10</td>
<td>30 July-3 Aug.</td>
<td>Main Stadium</td>
</tr>
<tr>
<td>2</td>
<td>Badminton</td>
<td>06</td>
<td>04</td>
<td>30 July-3 Aug.</td>
<td>Indoor Stadium</td>
</tr>
<tr>
<td>3</td>
<td>Basketball</td>
<td>18</td>
<td>12</td>
<td>30 July-3 Aug.</td>
<td>Main Stadium</td>
</tr>
<tr>
<td>4</td>
<td>Cricket</td>
<td>18</td>
<td>00</td>
<td>30 July-3 Aug.</td>
<td>Main Stadium</td>
</tr>
<tr>
<td>5</td>
<td>Football</td>
<td>22</td>
<td>00</td>
<td>30 July-3 Aug.</td>
<td>Main Stadium</td>
</tr>
<tr>
<td>6</td>
<td>Hockey</td>
<td>22</td>
<td>00</td>
<td>30 July-3 Aug.</td>
<td>Main Stadium</td>
</tr>
<tr>
<td>7</td>
<td>Table Tennis</td>
<td>06</td>
<td>04</td>
<td>30 July-3 Aug.</td>
<td>Main Stadium</td>
</tr>
<tr>
<td>8</td>
<td>Tennis</td>
<td>06</td>
<td>03</td>
<td>30 July-3 Aug.</td>
<td>Main Stadium</td>
</tr>
<tr>
<td>9</td>
<td>Volley ball</td>
<td>20</td>
<td>00</td>
<td>30 July-3 Aug.</td>
<td>Main Stadium</td>
</tr>
<tr>
<td>10</td>
<td>Weight Lifting</td>
<td>08</td>
<td>00</td>
<td>30 July-3 Aug.</td>
<td>Main Stadium</td>
</tr>
<tr>
<td>11</td>
<td>Swimming</td>
<td>15</td>
<td>06</td>
<td>30 July-3 Aug.</td>
<td>Main Stadium</td>
</tr>
</tbody>
</table>

**PE-102 Second semester from January to April**

This course runs similarly during January April in the evening. Students are allowed to join PE 102 only after clearing PE-101.

PE 101 and PE-102 courses are senate approved compulsory courses for the first year students of four year B.Tech. Five Years Integrated and B.Tech-M.Tech. Dual degree students. The Physical Education Section has been given the responsibility to conduct these courses.

**CALENDER FOR COMPULSORY PHYSICAL ACTIVITIES COURSE**

<table>
<thead>
<tr>
<th>S.N.</th>
<th>Instructors</th>
<th>Games &amp; Sports</th>
<th>Venue</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Mr. Vishram Yadav</td>
<td>Basket Ball (Boys &amp; Girls)</td>
<td>Main Ground</td>
</tr>
<tr>
<td>2</td>
<td>Mr. S S Prasad</td>
<td>Cricket Boys</td>
<td>Main Ground</td>
</tr>
<tr>
<td>3</td>
<td>Mr. D.P.Dohare</td>
<td>TT Weight Lifting</td>
<td>Gymnasium Hall</td>
</tr>
<tr>
<td>4</td>
<td>Mr. R L Dhiman</td>
<td>Hockey</td>
<td>Hockey Ground</td>
</tr>
<tr>
<td>5</td>
<td>Mr. P.K.Misra</td>
<td>Athletics</td>
<td>Main Ground</td>
</tr>
<tr>
<td>6</td>
<td>Mr. Sunil Kumar</td>
<td>Football</td>
<td>Football Ground</td>
</tr>
<tr>
<td>7</td>
<td>Mr. Amit Kumar</td>
<td>Volleyball</td>
<td>Main Ground</td>
</tr>
</tbody>
</table>

| 01   | August 2007       | 1. Introduction of games, explanation of rules and |
6,8,13,20,22  regulations.
   2. Teaching fundamental skills of the game with drill/lead up games.
   3. First year Cross Country on 17 August 2007, 6:00 P.M. at main stadium

<table>
<thead>
<tr>
<th>Date</th>
<th>Nature of activities</th>
</tr>
</thead>
<tbody>
<tr>
<td>02 September 2007</td>
<td>1. Coaching and teaching technique of the game, practice with in selected groups</td>
</tr>
<tr>
<td>3,5,10,12,17,19,24,26</td>
<td>2. Practice matches with CPA and all probable for institute teams</td>
</tr>
<tr>
<td></td>
<td>3. D7 A side regular football matches 5-12 September 07</td>
</tr>
<tr>
<td></td>
<td>4. Swimming event coaching camp 05-07 September 07</td>
</tr>
<tr>
<td>1st mid semester</td>
<td>5. TT &amp; Badminton 1st year matches 05-12 September 07</td>
</tr>
<tr>
<td>examination</td>
<td>6. Athletics events, Basketball, Hockey &amp; Cricket 1st year matches 19-21 September 07</td>
</tr>
<tr>
<td>Aug,30-31 September</td>
<td>7. Water polo matches cum coaching camp 19-21 September 07</td>
</tr>
<tr>
<td>2007</td>
<td>8. Institute Aquatics team selection trial 19-21 September 07</td>
</tr>
<tr>
<td>03 October 2007</td>
<td>1. Institute Teams selection trials</td>
</tr>
<tr>
<td>4,23,25,30 Mid Sem.</td>
<td>2. Intramural matches for 1st year students (selection of the games announced later)</td>
</tr>
<tr>
<td>Mid Sem. Recess. 13-21</td>
<td></td>
</tr>
<tr>
<td>October 2007</td>
<td></td>
</tr>
<tr>
<td>04 November 2007</td>
<td>1. Intramural matches for first year students.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>S N.</th>
<th>Date</th>
<th>Nature of activities</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>August 2007</td>
<td>1. Warming up jogging, running, simple exercise and specific exercise</td>
</tr>
<tr>
<td></td>
<td>7,9,14,16,21,23</td>
<td>2. Introduction, explanation of rules &amp; regulation of games opted as CPA</td>
</tr>
<tr>
<td>2</td>
<td>September, 2007</td>
<td>1. Strength, endurance, stretching and circuit training etc.</td>
</tr>
<tr>
<td></td>
<td>6,11,13,18,20,25,27</td>
<td>2. Teaching fundamental skills of the game with drill/lead up games</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3. Selecting good sportsman for first years B Team</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4. Selection for institute main team</td>
</tr>
<tr>
<td>3</td>
<td>October-2007</td>
<td>1. Practice matches with A and B</td>
</tr>
<tr>
<td></td>
<td>04,23,25,30</td>
<td>2. 7-A side leagues matches first year A and B institutes main team</td>
</tr>
<tr>
<td>4</td>
<td>November 2007</td>
<td>1. 7-A side league matches to continue</td>
</tr>
</tbody>
</table>
11. WARDENS

**HALL OF RESIDENCE No. I**
Dr. Arun P. Sinha, Warden-in-Charge
Dr. Sanjeev Garg, Warden
Dr. Satyajit Banerjee, Warden

**HALL OF RESIDENCE No. II**
Dr. Ashish Garg, Warden-in-Charge
Dr. Jayant K Singh, Warden
Dr. Shalabh Srivastava, warden

**HALL OF RESIDENCE No. III**
Dr. P. S. Ghoshdastidar, Warden-in-Charge
Dr. Abhijit Kusheri, Warden
Dr. Amit Prashant, Warden

**HALL OF RESIDENCE No. IV**
Dr. H. Karnik, Warden-in-Charge
Dr. V. Subrahmanyan, Warden
Dr. Anish Upadhyay, Warden

**HALL OF RESIDENCE No. V**
Dr. Rajesh Srivastava, Warden
Dr. S. Panda, Warden
Dr. T Ravichandran, Warden

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

**HALL OF RESIDENCE No. VII**
Dr. Sameer Khandekar, Warden-in-Charge
Dr. Amit Mitra, Warden
Dr. Zakir Hossain, 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
Dr. J. Ram Kumar, Warden
HALL OF RESIDENCE- GH
Dr. V.N. Kuklarni, Warden-in-Charge
Dr. Shikha Dixit, Warden
Dr. Asima Pradhan, Warden

SBRA
Dr. Goutam Deo, Warden-in-Charge
Mr. Sandip Sitaram Patil, Convener
(M) 9451222560
STUDENTS’ PLACEMENT

The Students’ Placement Office (SPO) continues to play a vital role in assisting the students in their career planning and placement. As in past years, several counseling sessions and workshops were organised to help students prepare for the final interviews.

Invitation letters for participation in the Campus Recruitment Programme 2007-08 were sent to over 500 Organizations. Pre-Placement Talks were held during the 7th semester beginning on 24th August 07. 58 companies visited the campus for their pre-placement presentations. The final Placements began on 1st December 07 and lasted till the end of March 07.

A total of 126 companies visited the campus and recruited 656 students out of 680 students registered with the SPO (see attached Table). The placement statistics for our B.Tech students touched nearly 99% this year while for the M.Tech. students it is over 97%. The overall placement for 2007-08 has been over 96%. With the objective of providing uniform opportunity to all students registered for placement, the policy of “one job per student” is followed. The average salary this year for the overall batch is Rs.6.50 lakhs per annum. The core sectors attracted maximum number of students. Amongst the new organizations, the major ones that recruited this year are UBS Hong Kong, JP Morgan, ICICI Lombard, Nagarjuna Fertilizers, Renault, Nokia, John Deere, Essar, and the DAR Group. Placement for the MBA Programme is organized separately by the IME department. Their placement was 100%.
One of the important initiatives taken this placement season was the introduction of a Placement Feedback Guide, comprising interviews and articles by students placed and some generic placement preparation tips for students. A new placement automation system (PAS) was developed in-house by the student volunteers of SPO. It has served as a professional interface for interacting with companies and students and aided in an efficient Database Management. It included all the processes right from registration of students to the announcements of final job offers.

The Students’ Placement Office coordinated the Summer Internship Programme for the pre-final year students of all the engineering departments. Internship offers have been made to 95 students so far through SPO.

The SPO would like to thank everyone in the Institute who helped in the placement process.

### Placement Data 2007-08 with details

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<tr>
<th>B.Tech</th>
<th>Total</th>
<th>Percent</th>
</tr>
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<td></td>
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<tr>
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<tr>
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<tr>
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<tr>
<td><strong>Sub-total</strong></td>
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<tr>
<td>M.Tech</td>
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154
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<th>Course</th>
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<th>EEM</th>
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<th>ME</th>
<th>NET</th>
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</tr>
<tr>
<td>NET</td>
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<tr>
<td>Sub-total</td>
<td>268</td>
<td>16</td>
<td>227</td>
<td>4</td>
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<td>7</td>
<td>5</td>
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<table>
<thead>
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<th>Program</th>
<th>Subtotal</th>
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<tr>
<td>M.Sc Int.</td>
<td>268</td>
</tr>
<tr>
<td>M.Sc 2yrs</td>
<td>36</td>
</tr>
</tbody>
</table>

**Grand Total:** 680 51 418 39 75 45 656 96.47
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 the 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>
<tr>
<td>3.</td>
<td>Electrical &amp; Air-</td>
<td>Electrical maintenance</td>
<td>Sr. Electrical Engineer /</td>
</tr>
<tr>
<td></td>
<td>conditioning Division</td>
<td>Domestic / Central AC maintenance</td>
<td>Superintending Engineer</td>
</tr>
<tr>
<td>4.</td>
<td>Horticulture</td>
<td>Development &amp; maintenance</td>
<td>Executive Engineer</td>
</tr>
<tr>
<td>5.</td>
<td>Estate</td>
<td>Estate management &amp; sanitation</td>
<td>Estate Officer</td>
</tr>
</tbody>
</table>
During the financial year 2007-08, IWD has undertaken the following major development works

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Name of work</th>
<th>Value of work (Rs. in Lacs)</th>
<th>Start</th>
<th>Completion</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Construction of New Core Labs.</td>
<td>1400</td>
<td>22.04.07</td>
<td>21.02.09</td>
</tr>
<tr>
<td>2</td>
<td>Construction of Centre for Environmental Sc. &amp; Engg. Bldg.</td>
<td>600</td>
<td>05.06.06</td>
<td>May 2008</td>
</tr>
<tr>
<td>3</td>
<td>Construction of JEE / GATE office building at IIT Kanpur.</td>
<td>350</td>
<td>01.01.07</td>
<td>May 2008</td>
</tr>
<tr>
<td>4</td>
<td>Construction of lab space for Unmanned Helicopter Vehicles and other research activities.</td>
<td>350</td>
<td>01.01.07</td>
<td>May 2008</td>
</tr>
<tr>
<td>6</td>
<td>Conversion of Pilot Plant building into Nanoscience Bldg. (SH: Clean room accessories etc.).</td>
<td>120</td>
<td>13.06.06</td>
<td>March 08</td>
</tr>
<tr>
<td>7</td>
<td>Expansion of 33 kV sub-station &amp; installation of new SS No.-VII for acad. area (Ph.-II).</td>
<td>450</td>
<td>10.08.07</td>
<td>May 2008</td>
</tr>
</tbody>
</table>

Following new major projects have been taken up in the current year:
1. Construction of building for dept. of Industrial Management Engineering.
3. Construction of Sports Complex
4. Construction of Gymkhana Complex (Student Activity Centre & Open Air Theatre)
5. Renovation of existing sports facility.

Following new major projects are under planning:

1. Construction of faculty residences
2. Construction of faculty club.
3. Construction of faculty lounge
4. Conversion of Northern Western Labs into Multistorey Labs.

**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 sources.

The Import Section handles customs clearance of all foreign consignments and matters relating to Import Licenses/Custom Duty Exemption Certificate 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 2007-2008 the Purchase Section placed 1757 orders valued Rs.68,54,48,775=53 which includes import order numbering 434 costing Rs. 50,06,75,059=66 and Indigenous Order numbering 1323 costing 18,47,73,715=87. The purchase orders and their values under various categories are as follows.

<table>
<thead>
<tr>
<th>Category</th>
<th>No. of P.O.</th>
<th>Amount( in Rs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Import :-</strong></td>
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<td></td>
</tr>
<tr>
<td>(A) Institute fund</td>
<td></td>
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</tr>
<tr>
<td>Consumable</td>
<td>27</td>
<td>24,16,950=05</td>
</tr>
<tr>
<td>Non consumable</td>
<td>46</td>
<td>7,41,50,802=49</td>
</tr>
<tr>
<td>(B) Project fund</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Consumable</td>
<td>125</td>
<td>1,56,73,521=99</td>
</tr>
</tbody>
</table>
Central Stores procures highly technical items as and when required by the different departments to maintain pace with science and technology development. It stocks some items of consumable nature like stationary, hardware, and liveries etc. The Central Store has four units, namely Purchase Unit, Import Unit, Bill Unit and Receipt/Issue Unit. This section is headed by a professionally competent person and he is also assisted by a professionally competent team of 19 personnel.

The store also maintained records of 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.

This Section also started reconditioning of wooden & steel furniture. During the financial year 2007-2008 we have reconditioned different types of furniture and issued to various departments. The details of reconditioned furniture are as follows. (1) chair 71 Nos (2) computer table 3 Nos (3) office table 53 Nos (4) Almira 12 Nos (5) Wooden Racks 16 Nos (6) Filling Cabinet 6 Nos (7) Stool 1 No (8) Notice Board 3 Nos. In this way we have saved lot of money of the institute.

We have been successful in computerizing the transactions 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 per 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 speedy action for the procurement. Store and Purchase is now connected with the main frame Computer of Computer Center. Full communication with every net user is now possible in the campus from Store and Purchase Section. We are also planning to provide web based postal, so that departments 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 of 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 allotees, estate management and civic amenities.

The Institute has various types of residential accommodation, i.e. Type-IA, IB, I, II, III, IV & 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 the main shopping complex, another 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, washerman shop, tailoring shop which mainly fulfills the immediate needs of students. As per demand, we have already started the operation of PCOs in most of the hostels.

The construction of twelve residences for visiting faculty has been completed and is used for providing accommodation.
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 2007-08, the office has realized about **Rs. 61,38,685/-** from different sources.

**CAMPUS SCHOOL**

**Physical Panorama**

**School Strength:**
367 students are served by a team of 23 highly qualified teachers (including 5 on contract basis), 11 supporting staff and the Principal.

**Infra-structure:**
Infra-structure of the school is very strong. The school is well equipped with open shelf library, Computer Lab, well maintained music & dance room, Science room, Art room, P.T. room for indoor games and a big playground for Basket ball, Volley Ball, Foot Ball, Cricket, Kho-Kho, Swings etc.

We planned to have at least two general body P.T.A. meetings every year. The Principal held few P.T.A. meetings gradewise with the parents concerned, teachers & students. Specific observations & remarks of the teachers & parents along with suggestive measures were discussed in detail. The aim of such meetings was to provide a platform for the teachers, parents & students to help students in their all-round development of personality.

**Activities:**
To uphold socio-cultural heritage of our country the school provides wide range of exposure to the kids. Our cultural secretary Mrs. S. Yadav chalked out the the programmes at the beginning of the session.

A. Morning assembly programmes were designed and organised by Mr. Mewa Lal & presented nicely on the stage giving enough time for exposure of the skills & talents of the kids in News reading, story telling, poetry recitation, general knowledge etc.
B. Glimpses of different festivals & functions such as Milad-un-Nabi, Ram Naumi, Mahavir Jayanti, X’mas, Raksha Bandhan, Id ul - Fitr etc. were presented by the students in the morning assembly.

C. The teachers and invitees such as Dr. Mrs. Mamta Vyas, Mr. Mc. Donald etc. addressed the morning assembly on different occasions such as Budh Purnima, Moharram, Good Friday, Ravi Das Jayanti, Childrens Day.

D. For students an arrangement was made for local visits such as Air Strip, N.W. Tunnel, Nursery, P.O. etc. Students of grade IV & V made a trip to water park on Sept. 07, 2007 under the guidance of Mr. Victor and Mrs. N. Agnihotri.

E. Our Annual Sports Day was celebrated on Feb.02, 2008. Prof. Kripa Shanker Deputy Director of the Institute was the Chief Guest of the day. The day's activities were geared round our young & dynamic P.T.I, Mr. Vikas Victor. It was a very successful event. Tug of war for gents, musical chair race for ladies, passing through a burning circle, making wonderful pyramids etc. were very attractive & adventurous events that were appreciated & applauded by all.

F. Mr. N.L. Sonkar, Science incharge made very good efforts to provide a platform to the budding young scientists on the occasion of our Annual Science Exhibition: They exhibited their talents & skills in the field of science. Prof. M.K. Harbola was the Chief Guest on the occasion. He encouraged our mini - scientists with his valuable remarks.

Independence Day: Aug.15, 2007 - Main programmes were held in the Institute Stadium.

Republic Day: Jan. 26, 2008 - Fruit distribution after a short programme in the school.

Teachers Day: Sept.5, 2007 - Prof. Rahul Varman was the Chief Guest on the occasion. The Institute recognised the services of teachers & presented token gifts to them and hosted lunch.

Children’s Day: Nov.14, 2007 - Art competition and gift distribution to the kids.

Inter – school competition:

A. Our kids participated in the Wild Life Week celebrations and brought many laurels to the school. They competed with grade VIII students of the city schools in Group discussion, Group Song, Group Dance & Mono Acting and stood FIRST in each of the said competitions. The performance of the kids was appreciated and applauded by all including the Director of the Zoo and the local daily news papers.
B. Inter school Kho – Kho Tournament was organised on 12.11.2007 and 13.11.2007 in which Campus School IIT/K was the winner and D.S.Public School, Kalyanpur, Kanpur, the runner up.

C. A three day ‘Workshop’ on ‘combined evening activities’ (of the schools on the campus) was successfully arranged & organised by Prof. H.C.Verma, as its Convenor. Active participation of community volunteers & teachers was highly appreciative & fruitful. Registration and participation of large number of students, their zeal & enthusiasm in activities was quite encouraging one.

D. I am thankful to the Campus School News Letter Team - the volunteers and teachers concerned for bringing out the first issue of the magazine. The pain and initiative taken by the volunteers are appreciated & applauded, I express my sincere thanks to the Institute authorities for encouraging and providing financial support.

Special Events

A. Four of our teachers Mrs. Pawan Srivastava, Mr. Mewa Lal, Mr. Om Prakash and Mr. N.L.Sonkar were honoured by the Director of the Institute for their long and satisfactory services rendered to the Institute on the eve of Republic Day. I extend my heartiest congratulations to them with a hope that they would continue to give their best to the students.

B. Mrs. Geeta Asthana, Teacher Grd.-I and Mr. Prahlad Tiwari, Helper, retired from their services by virtue of superannuation. I put on record their sincere valuable & exemplary services rendered to the school.

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 01.04.2007 to 31.03.2008 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>53230</td>
</tr>
<tr>
<td>2.</td>
<td>Number of students treated</td>
<td>12220</td>
</tr>
<tr>
<td></td>
<td>Description</td>
<td>Number</td>
</tr>
<tr>
<td>---</td>
<td>-----------------------------------------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>3.</td>
<td>Number of patients manually registered</td>
<td>619</td>
</tr>
<tr>
<td>4.</td>
<td>Number of patients treated in Indoor</td>
<td>939</td>
</tr>
<tr>
<td>5.</td>
<td>Number of patients treated in Homeopathy</td>
<td>3649</td>
</tr>
<tr>
<td>6.</td>
<td>Number of Surgical Operations (Minor)</td>
<td>NIL</td>
</tr>
<tr>
<td>7.</td>
<td>Number of Tubectomy</td>
<td>NIL</td>
</tr>
<tr>
<td>8.</td>
<td>Number of D&amp;C</td>
<td>6</td>
</tr>
<tr>
<td>9.</td>
<td>Number of Deliveries</td>
<td>6</td>
</tr>
<tr>
<td>10.</td>
<td>Number of Plastering</td>
<td>74</td>
</tr>
<tr>
<td>11.</td>
<td>Number of Surgical Dressing</td>
<td>6517</td>
</tr>
<tr>
<td>12.</td>
<td>Number of Injections</td>
<td>70650</td>
</tr>
<tr>
<td>13.</td>
<td>Number of Copper T</td>
<td>856</td>
</tr>
<tr>
<td>14.</td>
<td>Number of Hematology and Biochemistry Tests</td>
<td>20</td>
</tr>
<tr>
<td>15.</td>
<td>Number of E.C.G.</td>
<td>43676</td>
</tr>
<tr>
<td>16.</td>
<td>Number of Babies attended in Well baby Clinic</td>
<td>578</td>
</tr>
<tr>
<td>17.</td>
<td>Number of Babies attended - National Pulse Polio Programme</td>
<td>808</td>
</tr>
<tr>
<td>18.</td>
<td>Number of X-Ray done</td>
<td>2786</td>
</tr>
<tr>
<td>19.</td>
<td>Number of Anti Rabies Injections</td>
<td>412</td>
</tr>
</tbody>
</table>

Immunizations are done round the year in the Health Centre for protection against Typhoid, Cholera, Tuberculosis, Diphtheria, Peruses 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’s guests, newly appointed faculty and staff members, delegates and participants attending various conferences, seminars, symposia and workshops. The Visitors’ Hostel has some allied facilities on the campus and in Chittaranjan Park Colony, New Delhi also for the benefit of the Institute’s Visitors.

**Allied Facilities:**
- Visiting Faculty Apartment at IIT Kanpur
- Service Apartment at Chittaranjan park, New Delhi
- Outreach 69 & 80 building, IIT Kanpur
The Visitors’ Hostel and 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 allied facilities.

**Accommodation:**
Visitors’ Hostel has been equipped with 70 Standard rooms of which 55 are AC and 15 are Non-AC. Further there are 15 Deluxe AC rooms. It can accommodate a maximum of 170 guests at a time on twin sharing basis. All the rooms have attached bathrooms with modern amenities.

**Dining Facility:**
VH provides dining facilities to in-house guests staying in VH and Visiting Faculty Apartment and for Institute activities. The Visitors’ Hostel has 2 air-conditioned dining halls with capacity of 30 and 70 guests respectively. One of the dining halls has a well furnished sitting room attached with it.

**Conferencing Facilities:**

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Name of Facility</th>
<th>Max. Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>VH Lounge (round table)</td>
<td>16</td>
</tr>
<tr>
<td>2</td>
<td>PBCEC Lawns</td>
<td>250</td>
</tr>
<tr>
<td>3</td>
<td>PBCEC Conference Room (U shaped)</td>
<td>18</td>
</tr>
<tr>
<td>4</td>
<td>PBCEC Small Class Room</td>
<td>36</td>
</tr>
<tr>
<td>5</td>
<td>PBCEC Big Class Room</td>
<td>65</td>
</tr>
<tr>
<td>6</td>
<td>PBCEC Committee Room</td>
<td>11</td>
</tr>
</tbody>
</table>

**B. Outreach 69 & 80**

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Name of Facility</th>
<th>Max. Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>Outreach Auditorium,</td>
<td>210</td>
</tr>
<tr>
<td>8</td>
<td>Outreach, Seminar Room -1</td>
<td>40</td>
</tr>
<tr>
<td>9</td>
<td>Outreach, Video-Conferencing Room</td>
<td>30</td>
</tr>
</tbody>
</table>


Additional Facilities:
- Centralised booking system for all facilities at VH and Allied Services through a common requisition form. All the forms are made available in departmental offices as well as downloadable from the website of VH at www.iitk.ac.in/vh.
- All the Deluxe AC rooms have a PC.
- All the rooms, Meeting Lounge, PBCEC and Dining Hall have Wi-fi connectivity.
- **DHCP:** All the guest rooms have DHCP (Dynamic Host Control Protocol) for direct Internet Connection, i.e. No IP Address, no User ID or password is required for accessing the Wi-Fi enabled internet services through their laptop.
- 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.
- Intimation of confirmation of bookings through e-mail.
- Acceptance of payment through Credit/Debit Cards.
- For detailed information, website of Visitors’ hostel can be accessed at www.iitk.ac.in/vh.

Renovation Work:
- Renovation and expansion of Front Office is under progress.
- 15 Non-AC rooms have been converted into Standard AC rooms.

On the Anvil:
- Provision of colour television in all guest rooms.
- Empanelment of Catering services.
- Refurbishing of standard and deluxe rooms.
- Maintaining an online Wait-list for allotment of facilities at VH & Allied Services.

Management of day-to-day hospitality service has been outsourced to a private agency. An increase in facilities and services and a more professional approach has led to more transparency in day-to-day functioning of the system and increased occupancy rate, thus achieving more financial viability in terms of operational expenditure.
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133. Learning Machine with 3 Dimensional Vector Values Neural Networks, XXXI/NATIONAL SYSTEMS CONFERENCE (NSC-2007), Manipal Institute of Technology, Manipal, India, Bipin Kumar Tripathi and Prem K. Kalra.

134. SVM based Image Compression with Reproducing Wavelet Kernels, XXXI/NATIONAL SYSTEMS CONFERENCE (NSC-2007), Manipal Institute of Technology, Manipal, India, Arvind Tolambiya and Prem K. Kalra.


155. Particle Swarm Based Optimal Estimation of Block Incremental Cost Curve, 14th International Conference on Intelligent System Applications to Power Systems (ISAP07), 5-8 November, 2007, Kaohsiung, Taiwan, pp. 257-263, SN Singh and I Erlich.


Industrial & Management


194. Website satisfaction: Role of user and website characteristics, 2nd Conference on Research in Marketing, Indian Institute of Management Ahmedabad, Jan 3-5, 2007, Shukla, A., Swami, S., & Sharma N. K.


197. IT, Social Capital and the Digital Ecosystem: A new approach to online content co-creation, Second National Conference on Interdependence, Integration and Co-creation ( IIC ), India. Received the best paper award, 2007, Radhika Rajagopalan and Runa Sarkar.


Materials and Metallurgical


196. Structural Characterization and Corrosion Behavior of As-Cast Tb$_{0.3}$Dy$_{0.7}$Fe$_{1.95}$-xNb, Alloys, International Conference on Metals and Alloys: Past, Present and Future IIT Kanpur, 07-10 December 2007, D. Sachdeva, S. Singh and R. Balasubramaniam.


Mechanical


227. Control of wake behind a square prism using forced oscillation: Effect of amplitude of oscillation at constant perturbation frequency, Floteck: Global conference and Exhibition entitled Towards Intelligent flow measurement.


229. Dynamics of a relay oscillator with hysteresis, the 46th IEEE Conference on Decision and Control, New Orleans, LA, USA, December 10-11, 2007, Dr. Tamas Kalmar-Nagy and Dr. Pankaj Wahi.


258. Delamination sensing of laminated composites with smart Magnetostrictive layers, Proceedings of International Conference on Recent Developments in
Mechanical Engineering, pp 392-399, SUCET, Mohali, Punjab, Jan 2008, Anand Kumar and Bishakh Bhattacharya.


264. Design of Bus Fascia made of Sandwiched FRP composites, Engineering Design IN-2007, Bangalore, India, Prasanth Kumar, Rajeev Sharma and J. Ramkumar.


266. State of the art Magnetic Abrasive Finishing, 14th International Conference on Frontiers in Design and Manufacturing Engineering (ICDM 08), India, Sandeep Nair and J. Ramkumar.


Humanities and Social Sciences


Chemistry


Mathematics and Statistics


Physics

312. Superconducting and magnetic properties of Pt-based borocarbides RPt$_2$B$_2$C (R=La, Ce, Pr), Proceedings of the International Conference of Materials and Mechanism of High Temperature Superconductivity held in Dresden, Germany, 2006, V.K. Anand, C. Geibel, Z. Hossain, Physica C V 460-462, 1 Sept. 2007, p 636-8

313. Magnetic behavior of PrPd$_2$B$_2$C, Proceedings of the International Conference of Materials and Mechanism of High Temperature Superconductivity held in


SEMINAR PRESENTED

Aerospace


19. Seminar on Aeroelasticity in Helicopters, Department of Aerospace Engineering, PARK College of Engineering and Technology, Coimbatore, August 2007, Dr. C. Venkatesan.


Biological Science and Bio-engineering


22. Genome-wide analysis and homology modeling of major intrinsic proteins in plants: Conservation in helix interface and diversity in selectivity filter.
Invited talk, Indo-French Bioinformatics Meeting, Montpellier, France, 19th to 21st November, 2007, Dr. R. Sankararamakrishnah.


24. Bacterial adaptation to stress: uncovering structure-function relationships in Rel proteins. Invited speaker at the meeting 2008 Annual Symposium: Exploring Collaborations with India, University of Nottingham, 18th March 2008, Dr. Balaji Prakash.


26. Genetic diagnosis in Lafora disease: promises, challenges and pitfalls. Invited talk delivered in the International Conference on Genetic and Molecular Diagnosis in Modern Medicine, Kamineni Educational Society, Hyderabad, January 7-9, 2008, Dr. S. Ganesh.


28. Advances in molecular genetics of neurological disorders, Distinguished Seminar Series, Department of Biotechnology, Alagappa University, Karaikudi, July 14, 2007, Dr. S. Ganesh.

29. Development of plant-parasitic nematodes, Centre for Biomolecular Studies, Univ. of Nottingham, UK, March 18, 2008, Dr. K. Subramaniam.

30. Biomechanical study of human stomach: gastric motility vs. drug design, Annual Symposium of Centre for Biolmolecular Sciences, Univ. of Nottingham, UK, March 18th 2008, Dr. Anupam Pal.

31. Biomechanics of transport through the GI Tract, Golden Jubilee Celebration Symposium, Central Mechanical Engineering Research Institute, Durgapur, July 2007, Dr. Anupam Pal.

Chemical

33. Invited Lecture on Pressure driven membrane processes for Effluent Treatment at Dairy Australian Industries Ltd. (DAIL) at Melbourne, Australia on 19th February, 2008, P.K. Bhattacharya.
34. Invited Lecture on Pressure driven membrane processes: Principles and Applications at Department of Chemical Engineering and Bio-molecular Engineering, University of Melbourne, Australia on 19th February, 2008, P.K. Bhattacharya.
35. Invited Lecture on Pressure driven membrane processes: viable unit operations for effluent treatment in National Seminar on Recent Advances in Chemical Engineering Operation and Process in Chemical and Allied Industries, at Institute of Technology, Guru Ghasidas University, February 5-6, 2008, P.K. Bhattacharya.
36. Invited Lecture on Pressure Driven Membrane Processes for Effluent Treatment, in All India Seminar on Zero effluent discharge- latest development In recycling during 22-23 December, 2007; Organized By The Institute of Engineers (India) West Bengal State Centre Chemical Engineering Division at Kolkata, P.K. Bhattacharya.
39. Department of Chemical Engineering, Cornell University, USA, 10th March, 2008, A. Ghatak.
40. Department of Chemical Engineering, University of Akron, USA, 7th March, 2008, A. Ghatak.
41. Department of Mechanical Engineering, University of Alberta, Canada, 5th March, 2008, A. Ghatak.
42. National Chemical Laboratory, Pune, 20th February, 2008, A. Ghatak.
44. Bhopal Gas Tragedy Revisited Invited talk delivered at (I)Petronas, Malaysia, Kerteh Integrated Petrochemicals Complex (KIPC), Kerteh, March
45. Rheological study of aging soft glasses of laponite, 18th Mid-Year Meeting of Indian Academy of Sciences, Bangalore, July 2007, Yogesh M. Joshi.
47. Ageing Dynamics in Soft Materials, Department of Physics, Indian Institute of Technology-Kanpur, September 2007, Yogesh M. Joshi.
49. Inhibition of Coke Formation During Pyrolysis of Hydrocarbons, Dept. of Petroleum Chemical Engineering, Aligarh Muslim University, March 7, 2008, D. Kunzru.
52. Stability of viscoelastic shear flows past deformable solid media, Invited lecture at the Fluid Dynamics Colloquium, Jawaharlal Nehru Center for Advanced Scientific Research, Bangalore, April 2007, V. Shankar.
55. University of Erlangen-Nuernberg, Germany, A. Sharma.
56. National Institute of Standards and Technology (NIST, Maryland), A. Sharma.
57. Northwestern University, A. Sharma.
58. Proctor & Gamble (Cincinnati), A. Sharma.
Civil

61. Visited Bhartiya Vidya Bhavans Sardar Patel College of Engineering, Andheri (West), Mumbai during August 24-26, 2007 as NBA expert for accreditation of their BE Civil Engineering Programme.


64. Principles of bituminous pavement design and the recent trends, Short term course on Pavement Engineering with Geosynthetics : Looking Ahead, April 25, 2007, IIT Delhi, Das Animesh.


68. Invited Speaker, Vision 2020: Disaster Education as a Component of Higher Engineering Education- Structural Engineering, National Round Table of INAE Fellows and Others, Vellore, 9-10 January 2008, Murty, C.V.R.

69. Keynote Speaker, Role of Architects in Ensuring Earthquake Safe Built Environment, International Workshop of the South-Asian Association for Regional Cooperation of Architects (SAARCH), 12-14 March 2008, New Delhi, Murty, C.V.R.

Computer Science


72. Automorphisms of Finite Rings and Their Role in Computer Science. ISI Bangalore, Feb 2008, Manindra Agrawal.
73. Fermat's Last Theorem: From Integers to Elliptic Curves. TCS TACTiCS meeting, Thiruvananthapuram, Feb 2008, Manindra Agrawal.

Electrical

76. Nonsystematic turbo codes, Department of Electronics Engineering, Cheng-Shiu University, Kaohsiung, Taiwan, July 2007, Adrish Banerjee.
83. Demystifying Next Generation Networks, Institute of Engineering and Technology, Rohilkhand University, Bareilly, 5 October 2007, Y. N. Singh.
84. Learning Management System: How to use it effectively? MIT School of Telecommunication, Pune, 30 August 2007, Y. N. Singh.
85. Introduction to Switching Systems, MIT School of Telecommunications, Pune, 29 August 2007, Y. N. Singh.
100. Lecture on Model Based Audio Source Separation, December, 2007, DD Course, Electrical Engineering Department, IIT Kanpur, India, Dr P.K.Kalra.
103. Delivered an invited lecture on Fossil and Bio-fuels: Energy and Environment in Indian Perspective at the International Conference


110. 2nd Workshop on Laboratory Teaching in Electrical Engineering (LTEE-08), KNIT Sultanpur, India, Feb 28-29, 2008 (Key Note speaker), Dr. S.N.Singh.

111. Democritus Univ. Xanthi, Greece during May 2007, Dr. S.N. Singh.


114. Seminar on Surface Degradation characteristics on nano-composites, INSA Lyon, France, July, 2007, Dr.N.Gupta.

115. Delivered the IEEE sponsored seminar entitled Design and Implementation of an Optimised Power Quality Conditioner (UPQC) with Minimum VA Loading in CDAC, Trivandrum, June 27, 2007, Dr. S.P.Das.


118. Delivered an invited seminar on Electric Drives during the National Workshop Development in Power, Power Electronics, and Drives in Vasavi College of Engineering, Hyderabad, March 10, 2008, Dr. S. P. Das.

119. Antennas Research at IIT Kanpur, Presented at University of Kansas, Lawrence, USA, Dr. A.R.Harish.

120. Passive and active RFID and location technology research – an overview, Presented at Boeing, St. Louis, USA, Dr. A. R. Harish.

Industrial & Management


125. Research Methodology, MIT, Ghaziabad, July 11, 2007, Sharma, N. K.

126. Factor Analytic Methodology, Department of Psychology, University of Pune, January 31, 2008, Sharma, N. K.


129. European Commission Review Panel, Brussels, Overview of activities conducted under the AEGIS of OPAALs project by IIT Kanpur, September 2007, Sarkar, Runa.


131. The Strategy Academy, New Delhi, Training session on Application of Macroeconomics to everyday Business for executives all across the country through video conferencing, March 2008, Sarkar, Runa.


136. DEAL as a Model for Participatory Social Innovation, Sciences & the Humanities in the Knowledge Society: Indo-German Deliberations on Research Policy, NISTADS & German Centre for Research in Higher Education, New Delhi, April 3-4, 2007, Jayanta Chatterjee.
137. Retail Marketing in the Networked Society - Seeking Some New Meanings, Keynote Address, Seminar on Retail Management, Jagran Institute of Management, Kanpur, April 14, 2007, Jayanta Chatterjee.
143. Differences in Management for Different Types of IT-Based Enterprises Conference on India & Other Emerging Economies (BRIC) – A Comparative Study, SAS Institute of Information Technology, Mohali, 24 Oct 2007, Sinha, Arun P.
144. Innovation & Management Lecture at Dr. IT Planets Institute of Technology & Management, near Chandigarh, 24 Oct 2007, Sinha, Arun P.
146. Two way clustering of Gene Expression Data Analysis invited speaker at the workshop on Bio Informatics organized held at Tirupathi on Feb 22 2008, B. Chandra.

Materials and Metallurgical

155. Y-TZP Ceramics: Toughness tailoring and Tribological Properties, Department of Materials and Metallurgical Engineering, University Polytechnica Catalunya (UPC), Barcelona, Spain on 28th May, 2007 (Invited talk), B. Basu.
165. Opportunities to develop Nanoceramics and ceramic Nanocomposites using spark plasma sintering COE talk at Institute for Materials Research/Deputy Director, Tohoku University, 7th March, 2008 (Invited talk), B. Basu.
171. Alloy Design through PM Route for ITER, at the Institute of Plasma Research (IPR), Gandhinagar on April 30, 2008, A. Upadhyaya.

Mechanical

173. Delivered a series of lectures (9 hours) on Optimization theory in IIIT Hyderabad, Dec 2007, B. Dasgupta.


177. Institute Lecture BioMEMS and Lab on chip approaches for analysis of nucleic acids, Biosciences and Bioengineering department, Indian Institute of Technology-Kanpur, August 2007, S. Bhattacharya.


180. Delivered a series of lectures (9 hours) on Optimization theory in IIIT Hyderabad, Dec 2007, B. Dasgupta.


184. Introduction to Experiments; Schlieren and Shadowgraph; Inverse Techniques; three lectures given during the QIP course entitled Modern Measurement Techniques in Solid and Fluid Mechanics, held during 7-12 May 2007 at IIT Kanpur (coordinators: P. Venkitanarayanan and S. Khandekar), K. Muralidhar.


188. Reconstruction of Time-dependent Concentration Gradients around a KDP crystal growing from its aqueous solution, Subir Kar Memorial Lecture delivered at the 37th Fluid Mechanics and Fluid Power Conference, BIT Mesra (Ranchi), during 10-12 December 2007; also see pp 195-208 in the conference proceedings, K. Muralidhar.


191. 7th Asian Computational Fluid Dynamics Conference, held in Bangalore, 26-30th Nov07, Dr. S. Sarkar.


204. Invited lecture on Smart Materials & Design of Intelligent Systems during a two day refresher course on Advances in Materials & Material Selection in Design in Department of Mechanical Engineering, Harcourt Butler Technological Institute during March 10-11, 2007, B. Bhattacharya.
205. Invited lecture on Health Monitoring of Composite Structures with Smart Sensors during a two day refresher course on Composite Materials: Potential & Challenges in Department of Mechanical Engineering, Harcourt Butler Technological Institute during December 28-29, 2007, B. Bhattacharya.
Humanities and Social Sciences


222. Delivered an Invited and Sponsored Lecture on Postmodern Textual Complexities and Advocated Curatives at Kogakuin University, Tokyo, Japan on 3 November 2007, T. Ravichandran.


224. Delivered an invited lecture on Qualitative Research Tools during the training session organized at IIT Kanpur on September 28, 2007 on District
Situations Analysis of HIV/AIDS amongst the adolescents in Vaishali and Muzaffarpur districts of Bihar, Kumar Ravi Priya.

225. Presented the paper entitled, Experiencing Our True and Transcendental Self: What Recent Developments in Qualitative Research has to Offer to Researchers and Participants at the National Seminar on Indian Psychology: Theories and Models at SVAYASA, Bangalore on 26-28 December, 2007, Kumar Ravi Priya.

226. Delivered invited talk (Partially funded by the Russian Academy of Sciences to visit, IHNST, RAS, Saint Petersburg, Russia) entitled: Current Problems of Science and the Public Understanding of the Role of Science and Technology in Developing Countries, in the XXIII, Session entitled, Fundamental Problems of Sociology and Economy of science: Past and Present, of the International School of Science and Technology Sociology, during Oct. 15-1 2007, IHNST, Russian Academy of Sciences, Saint Petersburg, Russia, 2007, Binay K Pattnaik.

227. Delivered the key note address as the chief speaker to the UGC funded National Seminar organized by the DAV College Kanpur, on the theme Environment and Development, on 19th February 2007 Title of the Key Note Address: Indigenous Vision for Ecologically Sound Development, Binay K Pattnaik.


Chemistry

236. Invitation from ICAM-2007 for a short Lecture on hybrid materials to be held at Bangalore, from Oct. 8-13, 2007, Dr. G. Anantharaman.

237. Invitation from MTIC-XII for a short Lecture to be held at IIT-Madras, from Dec. 5-7, 2007, Dr. G. Anantharaman.

238. Charge defects in hydrogen bonded systems: Ab initio molecular Dynamics studies, IIT Guwahati, May 08, 2007, Dr. A. Chandra.


240. Hydrogen bond dynamics in liquid water, Department of Chemistry, University of Kalyani, December 14, 2007, Dr. A. Chandra.


242. Quantum simulations of charge defects in hydrogen bonded clusters and chains, Department of Chemistry, University of Burdwan, February 08, 2008, Dr. A. Chandra.

243. Synthetic Nucleases: Recyclable hybrid Polymeric/Dendrimeric catalysts for phosphate ester hydrolysis and plasmid cleavage, Invited Talk at IUMRS-ICAM Conference held in Bangalore, 8-13 2007, Dr. V. Chandrasekhar.


247. FASCINATING WORLD OF ADVANCED MATERIALS AND THE ROLE OF CHEMISTRY, 26th Annual Conf. Indian Council of Chemists,
Department of Chemistry, H S Gaur University, Sagar, March 25-27 2008, Dr. N.S. Gajbhiye.

248. What do we at IIT Kanpur Ultrafast Pulse Shaping Laboratory, Debabrata Goswami, Department of Chemistry and Center for Molecular and Biomolecular Imaging Seminar, French Center for Molecular and Biomolecular Imaging Duke University 2220 French Family Science Center, 124 Science Drive, Durham, NC 27708, USA, June 10 (2007), Dr. D. Goswami.

249. Ultrafast Pulse Shaping – From Quantum Computing to Medical Imaging, Debabrata Goswami, Physics Colloquium, Dept. of Physics, IIT Kanpur, Aug. 9 (2007), Dr. D. Goswami.


251. Imidazolin-5-ones as biodegradable optoelectronic materials – TIFR, Mumbai June 2007, Dr. R. Gurunath.


254. Invited Lecture at the annual meeting of Indo-French Center for Organic Synthesis (IFCOS) held at Manoir de la Vicomté, close to Rennes and Dinard, France during September 12-13, 2007, Dr. F.A. Khan.

255. Medal lecture at CRSI meeting during February 1-3, 2008 at IISc, Bangalore, Dr. F.A. Khan.

256. Plenary lecture in a National conference on Recent Advances in Drug Discovery Research held during March 15-16, 2008 at Poona College, Pune, Dr. F.A. Khan.

257. Guest of Honor, and Inaugural address on Nano Science and Nano Technology at Manomaniam Sundaranar University, held at Sarah Tucker College, Tirunelveli, October 11 2007, Dr. S. Sundar Manoharan, Dr. F.A. Khan.


262. Special symposium on Spintronics at Techkriti IIT K, Chemistry of Spintronic Manganites, February 16th 2008, Dr. S. Sundar Manoharan.


264. NSC (National Seminar on Crystallography), Kolkota, March 05-08, 2008, Dr. J.N. Moorthy.

265. National Institute of Technology, Durgapur, West Bengal (February 28, 2008), Dr. R.N. Mukherjee.

266. 8th Refresher Course in Chemistry, UGC-Academic Staff College, Banaras Hindu University, Varanasi (January 22, 2008), Dr. R.N. Mukherjee.

267. Guru Nanak Dev University, Department of Chemistry, Amritsar (October 24-26, 2007), Dr. R.N. Mukherjee.

268. Bimala Churn Law Memorial Lecture, Indian Association for the Cultivation of Science, Kolkata (February 29, 2008), Dr. R.N. Mukherjee.

269. Technische Universität-Kaiserslautern, Fachbereich Chemie, Germany (July 13, 2007), Dr. R.N. Mukherjee.

270. Technische Universität-Berlin, Institut für Chemie, Germany (July 12, 2007), Dr. R.N. Mukherjee.

271. Technische Universität-Braunschweig, Institut für Anorganische und Analytische Chemie, Germany (July 11, 2007), Dr. R.N. Mukherjee.

272. Georg-August-Universität Göttingen, Institut für Anorganische Chemie, Germany (July 10, 2007), Dr. R.N. Mukherjee.

273. Universität Paderborn, Department Chemie, Anorganische und Analytische Chemie, Germany (July 9, 2007), Dr. R.N. Mukherjee.

274. Freie Universität-Berlin, Institut für Chemie und Biochemie, (July 5, 2007), Dr. R.N. Mukherjee.

275. Philipps-Universität Marburg, Anorganische Chemie, Germany (July 4, 2007), Dr. R.N. Mukherjee.


277. Max-Planck Institut für Bioanorganische Chemie, Mülheim an der Ruhr, Germany (July 2, 2007), Dr. R.N. Mukherjee.

278. Chemical Center, Lund University, Sweden (April 16, 2007), Dr. R.N. Mukherjee.

279. Elastic Effects in Thin Films, Department of Mechanical Engineering, IIT Kanpur, 27-03-08, Dr. Madhav Ranganathan.

281. Recent advances in cross-coupling reactions for organic synthesis, 8th Refresher course in chemistry, Academic staff college, Banaras Hindu University, Varanasi, January 28, 2008, Dr. M.L.N. Rao.


283. Organobismuths for C-C bond formations in organic synthesis, School of Chemistry, University of Hyderabad, Hyderabad, Feb 4, 2008, Dr. M.L.N. Rao.

284. Invited Talk during ACS meeting, August 18-24, 2007, Boston, Dr. V.K. Singh.

285. Invited talk during September 23-28, 2007 for Indo-Russian visit at Moscow, Dr. V.K. Singh.

286. Invited lecture at the national conference on quantum chemistry, soft computing and optimization titled Quantum control by creating local phase space barriers?, Prof. S. P. Bhattacharya festschrift, IACS (Kolkata), April 2008, Dr. K. Srihari.

287. Invited lecture at the fifth discussion meet on spectroscopy and dynamics of molecules and clusters titled Dynamical assignment of quantum states; recent advances and challenges, Mamallapuram, February 2008, Dr. K. Srihari.

288. Invited lecture at the CRSI-RSC joint symposium titled Dynamical tunneling: Mechanism and Control, Bangalore, January 2008, Dr. K. Srihari.

289. Invited lecture at the Trombay Symposium on Radiation and Photochemistry titled On the nature of vibrational energy flow in the molecular state space, Pune, January 2008, Dr. K. Srihari.

290. Invited lecture at the Workshop on coherent control of optical phenomena titled Bichromatically driven double well: parametric perspective of the control landscape, IITK, India, July 2007, Dr. K. Srihari.


293. Delivered two lectures entitled (a) Modern Reagents in Organic Chemistry (b) Carbohydrates: much more than mere sources of energy at the Department of Chemistry, NIIT Jallanadhar on February 15 and 16, 2008, Dr. Y.D. Vankar.
Delivered a lecture entitled Synthesis of Glycosidase Inhibitors: Molecules of Potential Therapeutic Importance at the R & D Centre of Nagarjuna Fertilizers, Hyderabad on February 18, 2008, Dr. Y.D. Vankar.

Stimuli-Responsive Soft Structures, JNC Conference on Advanced Materials, Munnar, Kerala (October 2007), Dr. Sandeep Verma.

Bioinspired Paradigms for Metal-Nucleobase Frameworks, Thiruvananthapuram, Kerala, (January 2008), Dr. Sandeep Verma.

Deen Dayal Upadhyaya University, Gorakhpur 2007, Dr. V.K. Yadav.

Indian Institute of Chemical Technology 2007, Dr. V.K. Yadav.

Emerging Areas in Chemical Sciences (Refresher Course), Gorakhpur University 2007 (a series of 4 lectures), Dr. V.K. Yadav.

Mathematics and Statistics

12 lectures delivered in Sponsored Training Program, Uttarakhand Council of Science and Technology, Puari, June 3-16, 2007, D. Bahuguna


Talk talk On Orlicz Spaces of Entire Functions, Department of Mathematics, Jammu University, Jammu, September 2007, M. Gupta.

Two invited talks at Department of Mathematics And Computer Science, Sri Satys Sai Institute of Higher Learning, Puttaparthi, September, 2007, M. K. Kadalbajoo.

Two invited talks at Centre of Advanced Study, Department of Mathematics, Punjab University, Chandigarh, December 7-11, 2007, M. K. Kadalbajoo.


Talk, on Fugledes Conjecture for Three Intervals, IMSc, Chennai, March 2008, S. Madan.


Talk on e is transcendental at Institute of Mathematics and Application, Bhubaneshwar, November 8, 2007, P. Mohanty.

312. Talk on An overview of Finite Element Analysis in ADSS at ISFM, Louis Pasteur University, Strasbourg, France, June 14, 2007, B. V. Rathish Kumar.


314. Three lectures on Geometric applications of Sturm Comparison theorem and its modern generalizations, Department of Pure Mathematics, Calcutta University, March 16-22, 2008, G. Santhanam.


Physics


318. Seminar entitled STM studies of Electronically Inhomogeneous Surfaces, Mar 2008, at Physics Department, Pondicherry University, Pondicherry, India, Dr. Anjan K. Gupta.

319. Colloquium entitled STM studies of Electronically Inhomogeneous Surfaces, Aug 2007, Colloquium at IITK, Physics Department, Dr. Anjan K. Gupta.

320. Seminar entitled STM Study of Strain-Induced Nano-Scale Electronic Patterns on Graphite Surface at CRTBT, Grenoble, France in May 2007, Dr. Anjan K. Gupta.

321. Invited talk entitled Spin Polarized Scanning Tunneling Microscopy (SP-STM), in Spintronics session organized at IITK Techkriti’08 in Feb-08, Dr. Anjan K. Gupta.

322. Four lectures entitled Scanning Probe Microscopy, in a Summer School on Condensed Matter Physics at HRI, Allahabad in June 2007, Dr. Anjan K. Gupta.

323. Invited Talk U-Controlled Frustration in the Triangular-Lattice Antiferromagnet in Workshop on Correlated Electrons and Frustrated Magnetism (CEFM07) in Goa from Nov 25 - Dec 5 2007, organized under the
auspices of the newly set up ‘Centre for Theoretic al Sciences (CTS) of TIFR, Dr. Avinas Singh.

324. Invited talks (4 nos.) Lecture Series on Super conductivity, at a School 
Organized on Condensed Matter Physics, at Harish Chandra Research 
Institute Allahabad, 5th June 2007, Dr. S. Banerjee.

325. Invited talk on Advances in Magneto-optical Imaging; Institute Colloquium 
Presented at the Tata Institute of Fundamental Research, July 18, 2007, Dr. S. 
Banerjee.

326. Invited talk on Advances in magneto-optical imaging and imaging 
instabilities in vortex matter; East Asia symposium on Superconducting 
Electronics, IIT Delhi 14th December, 2007, Dr. S. Banerjee.

327. Invited talk on Instabilities in superconductors and giant magnetic fields 
associated with plasmas; Department of Atomic Energy, Solid State Physics 

328. Invited talk on Plasma based nanoscale science and technology with 
multielemental focused ion beams, Organization: Special invited lecture, 
Center of Excellence (COE) Advanced Research Seminar, Research and 
Education Center of Nano Vision Science, Shizuoka University, Hamamatsu, 
Japan Date: December 19, 2007, Dr. S. Bhattacharjee.

329. Invited talk on Subnanosecond electron transport in polarized 
electromagnetic waves and the quasi steady state interpulse plasma, 
Organization: 22nd National Symposium on Plasma Science and Technology 
(PLASMA 2007), Institute for Plasma Research (IPR) and Plasma Science 
Society of India (PSSI), Gandhinagar, India, Date: December 6, 2007, Dr. S. 
Bhattacharjee.

330. Invited talk on Microwave plasma sources for focused ion beams, 
Organization: Short Term Course on Plasma - Basics and Industrial 
Applications, Department of Chemical Engineering, Indian Institute of 
Technology – Kanpur, India, Date: November 3, 2007, Dr. S. Bhattacharjee.

331. Invited talk on Multielemental Focused Ion Beams, Organization: National 
Symposium on Ion Beam Technology and Applications (SIBTA 2007), 
Bhabha Atomic Research Center (BARC) and BRNS, Department of Atomic 
Energy, Government of India, Mumbai, India, Date: September 20, 2007, Dr. 
S. Bhattacharjee.

332. Invited talk on Development of a microwave plasma based negative ion 
source and study of plasma dynamics through a transverse magnetic filter in 
the negative ion source Organization: Board of Research in Fusion Sciences, 
National Fusion Programme, NFP Experts Committee meeting, Institute for 
Plasma Research, Gandhinagar, India, Date: April 4, 2007, Dr. S. 
Bhattacharjee.
333. Two talks on (i) Ion Beams for materials engineering and analysis; (ii) Rutherford backscattering and channeling at Solid State Physics Laboratory, Delhi on Aug 20, 2007, Dr. V.N. Kulkarni.
334. Focused ion beams for application in nano technology at Ansal Institute of Technology on December 19, 2007, Dr. V.N. Kulkarni.
338. Seminars on Dynamo at (a) ETH, Zurich; (b) University of Volos, Volos, Greece; (c) Notre Dame University, USA; (d) University of Delhi, Delhi; (e) IIT Kanpur, Dr. M.K. Verma.
339. Invited talk on Strained Epitaxy of Giant Coercivity Cobalt-Platinum Nanodots Indo-Brazil Meeting on Nanomaterials, NCL Pune, October 2007, Dr. R.C. Budhani.
341. Invited talk on Antagonistic orders in epitaxial thin film heterostructures IUMRS-ICAM, Bangalore 2007, Dr. R.C. Budhani.
342. Invited talk on Competing orders in hole doped perovskite oxides of the manganite family 3rd Indo-Japan conference on ferroics and multiferroics, February 2008 IACS Kolkata, Dr. R.C. Budhani.
343. Invited talk on Physics on the Moon, delivered at the Discussion Meeting in Experiments in Future Lunar Missions, Physical Research Laboratory, Ahmedabad (Sep 13-14, 2007), Dr. S. Raychaudhuri.
344. Invited talk on Identifying Graviton Signals at the LHC : a discussion, delivered at the Workshop on the Physics of Warped Extra Dimensions, IIT Kharagpur (Feb 21-23, 2008), Dr. S. Raychaudhuri.
CONFERENCES ATTENDED OUTSIDE IIT KANPUR

Aerospace

2. International Biomedical Modeling School and Workshop Organized by: TIFR's Cent for Applicable Mathematics (TIFR-CAM), TIFR's National Center for Biological Sciences (NCBS) and Mathematics and Medical Physiology Group, The Institute for Mathematics and Scientific Computing, University of Graz, TIFR's National Center for Biological Sciences (NCBS), Bangalore, India, Feb 27 to March 2, 2008, Dr. Brijesh Eshpuniyani.
3. 31st Indian Social Science Congress, SNDT Womens University, Mumbai, 26-31, Dec. 2007, Dr. Kunal Ghosh.

Biological Science and Bio-engineering

12. Invited talk & chairing session, Dr. Ashok Kumar.


21. Conference: International Conference on Genetic and Molecular Diagnosis in Modern Medicine, Title: Genetic diagnosis in Laftera disease: promises, challenges and pitfalls: Kamineni Educational Society, Hyderabad (January 7-9, 2008), Invited talk, Dr. S. Ganesh.

22. Conference: 16th International C. elegans meeting, Title: Binding of maternal RNA-binding proteins to the 3 UTR is essential for the translational control of nos-2, University of California at Los Angeles, June 27-July 1, 2007, Contributed paper, Dr. K. Subramaniam


29. Conference: 4th Congress of Federation of Indian Physiological Societies, Role of gastric flow in mixing, emptying and drug release analyzed using computer simulation, New Delhi, India, January 2007, Invited presentation, Dr. Anupam Pal

Chemical


31. All India Seminar on Zero effluent discharge- latest development In recycling during 22-23 December, 2007; Organized By The Institute of Engineers (India) West Bengal State Centre Chemical Engineering Division at Kolkata, P.K. Bhattacharya.


34. Invited speaker at Symposium on complex fluids at Indian Institute of technology, Bombay, 21st-22nd Feb, 2008, A. Ghatak.
36. World Congress on Safety of Oil and Gas Industry 2007, April, 2007, Gyeongju, South Korea; paper presented, J.P. Gupta.
47. 79th annual meeting of Society of Rheology, Salt Lake City, 2008, Yogesh M. Joshi.
48. 4th complex fluids symposium, Indian Institute of Technology Bombay, 2008, Yogesh M. Joshi.
49. 2nd ISSS Conference on MEMS, Microsensors, Smart Materials, Structures and Systems, November 16-17, 2007, Pilani, S. Panda.
51. 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.
52. Self-organized materials and interfaces, Recent Developments in Nanomaterials, Benaras Hindu University, March 2007, A. Sharma.

Civil

65. International Conference on Civil Engineering in the New Millennium: Opportunities and Challenges (CENeM-2007) 11-14 January, Bengal Engineering and Science University, Shibpur, Howrah, India, Ghosh, P.
67. National Workshop on Science and Technology in Disaster Management – Earthquake, Land Slide and Tsunami, New Delhi, 02 - 03 April 2007, Jain, Sudhir K.,
68. UL INDIA FIRE ADVISORY COUNCIL MEET at New Delhi, 24-25 APRIL 2007, Jain, Sudhir K..
69. Global IIT Alumni Conference, Santa Clara, USA, July 2007, Jain, Sudhir K.,
70. Structural Engineers World Conference (SEWC 2007), Bangalore, Nov 2-7, 2007, Jain, Sudhir K.,
71. 8th Pacific Conference on Earthquake Engineering, Singapore, December 5 – 7, 2007, Jain, Sudhir K.,
72. International Workshop on Active Fault in Kutch and its Implications Towards Seismic Microzonation, Bhuj, January 18-19, 2008, Jain, Sudhir K.,
73. International Conference & Exhibition on Gaseous Fuells from 3-6, Feb. 2008, Goa, Jain, Sudhir, K.,
74. International Workshop on Information Platforms for Disaster Reduction, 3-4 October 2007, Tsukuba, Japan, Murty, C.V.R.,
75. Vision 2020: Disaster Education as a Component of Higher Engineering Education, National Round Table of INAE Fellows and Others, Vellore, 9-10 January 2008, Murty, C.V.R.,
77. International Conference on Construction – Managing Earthquake Risk, New Delhi, 30-31 January 2008, Murty, C.V.R.
78. National Workshop on Structural Health Monitoring, Non-destructive Evaluation and Retrofitting of Structures, New Delhi, 07-08 March 2008, Murty, C.V.R.
79. Role of Architects in Ensuring Earthquake Safe Built Environment, Proceedings of the South-Asian Association for Regional Cooperation of Architects (SAARCH), 12-14 March 2008, New Delhi, Murty, C.V.R.
80. Attended 18th Engineering Mechanics Division Conference at the Inn at Virginia Tech and Skelton Conference Center in Blacksburg, Virginia, USA, ASCE, Patra, N.R.
81. Fifth International Symposium on Environmental Hydraulics, Tempe, Arizona, USA, December 4-7, 2007, Presented contributed paper, Patra, N.R.
83. Attended Indian Aerosol Science and Technology Association Biannual meeting held in New Delhi from 14-16 November, Tripathi, S.N..

Computer Science

87. ICUICM 2008 at Suwon, South Korea, Jan 30-Feb 1st, 2008, as invited speaker, Ratan K. Ghosh.
90. Third International Conference on Advances in Computer Science and Technology, Thailand, April 2007, Sanjeev K. Aggarwal.
98. 16th Asian Test Symposium, Beijing (P.R. China), 2007, for presenting contributed paper, Shashank K. Mehta.
102. SIGCHI 2008, Florence Italy, for presenting a contributed paper, T.V. Prabhakar.
103. ISEC 2008, Hyderabad, as Chair for the tutorials and workshop, T.V. Prabhakar.

Electrical

110. XII International Conference on Speech and Computer (SPECOM2007), Moscow, Russia, October 15th-18th, 2007 (contributed paper), Pradip Sircar.
112. Pan IIT Summit with Motorola, 1st Nov at New Delhi (invited attendee), A. K. Chaturvedi.
115. IEEE TENCON 2007, Taipei, Taiwan (contributed paper and co-chaired a session), Y. N. Singh.
120. IEEE Power Engineering Society General Meeting 2007, Tampa, USA, June 24-28, 2007. Presented contributed papers and also served as one of the panelists, Dr. S. C. Srivastava.
122. 14th International Conference on Intelligent System Applications to Power Systems (ISAP07), 5 – 8 November, 2007, Kaohsiung, Taiwan, pp. 63-70 (Best Paper Award), Dr S.N.Singh.
123. Dr S.N.Singh, 2nd International Conference on Power Systems (ICPS2007), CPRI Bangalore, 12-14 December 2007 (Session Chairman), Dr S.N.Singh.
124. International Conference on Power Electronics (ICPE 07) at Daegu, S. Korea, Oct 30 – Nov 1, 2008, Session Chair, Dr. P. Sensarma.
129. Workshop on Recent Advances on Control & Learning (January 07 – 09, 2008), TCS, Hyderabad, Dr R.Potluri.


133. SPIE Optics and Photonics, San Diego, CA, Aug 2007, Dr.A.Ghosh.

Industrial & Management


137. Operational research in IT and SCM Madurai Sep6-8 ,2007, Ashok K Mittal.


139. 18th Kanpur chapter convention of quality circles Kanpur 6-7 October 2007, Ashok K Mittal.


141. Web2for Dev, Participatory Web for Development Conference at Rome, as participant and to socialize the DEAL and AGROPEDIA projects, Sarkar, September, 2007, Runa.


156. Service Science Management & Engineering Conference, Organised by ACM & IBM, Banglore, June 2007, Invited Speaker & Session Chair, Jayanta Chatterjee.


164. 3rd Japan-India Joint Seminar in Production/Quality Control and Micro/Nano Manufacturing Science, University of Electro-Communications, Tokyo, March 10-14, Paper Presentation, Peeyush Mehta.


168. Entrepreneurship Educator Development Course, Wadhwani Foundation-ISB, Dec 16-April 21,07-08, Hyderabad, B.V.Phani.

Materials and Metallurgical


171. How to design Hap-based Biocomposites?, at Fourth Research Conference of the European School of Materials Science and Engineering, held at UPC, Barcelona on 7-8th June, 2007, B. Basu.

Mechanical

175. COPEN 20087 attended at Engineering College Trivendrum (Keral), chaired one session on Non-traditional Manufacturing Processes, V.K. Jain.
183. Educational Environment in India, A review invited talk (coauthored with S.G. Dhande) at the 10th KAST International Symposium on
Interdisciplinary Education for Science and Technology Innovation, September 13-14, 2007 in Seoul, Korea
191. 14th International Heat Pipe Conference, Florianopolis, Brazil, April 2007, S. Khandekar.
Humanities and Social Sciences


203. Multiword Expressions in the Concept Space, International Conference of South Asian Languages (ICOSAL-8), Aligarh Muslim University, Aligarh, India, 2008. Somsukla Banerjee, Achla M. Raina and Harish Karnick.


205. De/Reterritorialising of Inner/Outer Ecosphere in Anita Desais Voices in the City and Kiran Desais Inheritance of Loss in the Tenth International Conference of the Forum on Contemporary Theory: Thinking Territory: Affect and Attachment towards Land in South Asia, held in Goa in collaboration with the Department of English, Goa University, 16-19 December 2007, T. Ravichandran.

206. Why a cultural psychology of trauma reactions and healing: The case of Kachchh earthquake at the International Conference on Psychology in Mental Health at the National Institute of Mental Health and Neuro Sciences (NIMHANS), Bangalore, India on 26-28 July, 2007, Kumar Ravi Priya.

207. Self growth along with the survivors of trauma: My experiences of constructing grounded theory of post-earthquake suffering and healing at the 8th Advances in Qualitative Methods Conference at Banff, Alberta, Canada from September 21-24, 2007, Kumar Ravi Priya.


211. Of Centres and Peripheries: Cultural Subversion in VKNs Short Stories, National Conference on Postcolonial Discourse in Bhasha Literature organized by Faculty of Arts, Benares Hindu University in Varanasi: September 2007, Mini Chandran.


218. The 12th International and 43rd National Conference of the Indian Academy of Applied Psychology, Department of Applied Psychology, University of Calcutta, Kolkata, 7-9 February, 2008, Contributed paper,
Trends in Coping with Cancer: A Study of Male and Female Patients, Mehrotra, A. & Dixit, S.

Chemistry

220. Modern Trends in Inorganic Chemistry, MTIC-XII, held at IIT-Madras between Dec. 5-12, Dr. G. Anantharaman.
221. Chemical Research Society of India CRSI, held at Bangalore between Feb. 1 - 3, 2008 at IISc Bangalore, Dr. G. Anantharaman.
222. Asian Conference on Coordination Chemistry in Okazaki, Japan on 29th July to 2nd August. Invited talk on the topic titled Organometallic Chemistry of the [Ru₂(CO)₆]²⁺ Core, Dr. J.K. Bera.
223. International Conference on Advanced Materials in Bangalore, India on October 8-13. Invited talk on the topic titled 1,8-Naphthyridine Based Hybrid Materials: Structural Diversity and Intramolecular Electron Transfer, Dr. J.K. Bera.
225. 30th International Conference on Solution Chemistry, held at Murdoch University, Perth, Australia, July 16-20 (Invited lecture), Dr. A. Chandra.
226. 16th Canadian Symposium on Theoretical Chemistry, held at Memorial University, St. Johns, Newfoundland and Labrador, Canada, August 4-9, 2007, (Invited Lecture), Dr. A. Chandra.
228. Fifth Discussion Meeting on Spectroscopy and Dynamics of Molecules and Clusters, held at Mahabalipuram, February 22-24, 2008 (Session Chair), Dr. A. Chandra.
229. India-UK Frontiers of Science Symposium, held at Hyderabad, March 4-7, 2008 (Invited Participant), Dr. A. Chandra.
230. IUMRS-ICAM Conference held in Bangalore, 8-13 2007, V. Chandrasekhar.


233. 26th Annual Conf. Indian Council of Chemists, Department of Chemistry, H S Gaur University, Sagar, March 25-27 2008, Key note speaker, Dr. N.S. Gajbhiye.

234. Al-Azhar International Science Conference, March 24-26, 2008, Cairo, Egypt, Invited talk, Dr. N.S. Gajbhiye.


237. Laser phase Induced Enhancement of Two-photon Absorption, Amit Nag and Debabrata Goswami, 5th International Workshop on Optimal Control of Quantum Dynamics: Theory and Experiments sponsored by Max-Planck-Gesellschaft (Max-Planck Society), Deutsche Forschungsgemeinschaft (German Research Foundation) and Munich Center for Advanced Photonics held at the Ringberg Castle, Tegernsee, Germany, Nov.28 to Dec.1 (2007) , Dr. D. Goswami.

238. Control of Two-photon Fluorescence by Slow Amplitude Modulation, A.K. De, D. Goswami, 5th International Workshop on Optimal Control of Quantum Dynamics: Theory and Experiments sponsored by Max-Planck-Gesellschaft (Max-Planck Society), Deutsche Forschungsgemeinschaft (German Research Foundation) and Munich Center for Advanced Photonics held at the Ringberg Castle, Tegernsee, Germany, Nov.28 to Dec.1 (2007) , Dr. D. Goswami.

239. Laser induced fluorescence spectroscopy of aromatic molecules with large amplitude vibrations, Partha Biswas, Debabrata Goswami, and Tapas Chakraborty, Poster: PC-82, DAE-BRNS Trombay Symposium on Radiation & Photochemistry, Yashada, Pune, January 7-11, 2008, Dr. D. Goswami.


241. Simultaneous TDM,WDM and CDMA with a Femtosecond Laser: Decoding by Non-degenerate Optical Gating, I. Bhattacharyya, S.K.
Maurya and D. Goswami, 5th Asian Conference on Ultrafast Phenomenon held at NUS, Singapore during Jan.06 to Jan. 09 (2008) , Dr. D. Goswami.


244. Shedding some light on quantum computation, D. Goswami, India-UK Frontiers of Science Symposium, Session: Quantum Computing, March 4-7 (2008) , Dr. D. Goswami.


246. 39th Middle Atlantic Regional Meeting of the American Chemical Society, Collegeville, PA, USA, May 16-18, 2007, Dr. B.D. Gupta.


248. MTIC, Chemistry Department, IIT Madras, Dec 2007, Dr. B.D. Gupta.

249. Bidegradation of N, N'-Dimethyl formamide by paracoccus species strain DMF in the international Conference on Catalysis and fine chemicals at NAnyang TECchnological University Singapore December 2007, Shiv Swaroop and R. Gurunath.

250. Guest of Honor, and Inaugural address on Nano Science and Nano Technology at Manomamiam Sundranar University, held at Sarah Tucker College, Tirunelveli, October 11 2007, Dr. S. Sundar Manoharan.


255. Advances in Synthetic and Medicinal Chemistry (ASMC 2007), St. Petersburg, Russia, 28th August to 1st September 2007, Dr. J.N. Moorthy.

256. National Symposium on Modern Trends in Inorganic Chemistry (MTIC-XII), Indian Institute of Technology Madras, Madras (December 6-8, 2007), Dr. R.N. Mukherjee.

257. Department of Science & Technology (DST) – Sponsored Winter School in Bioinorganic Chemistry, Department of Chemistry, Indian Institute of Technology Bombay, Mumbai, November 26, 2007, Dr. R.N. Mukherjee.


259. International Conference on Biological Inorganic Chemistry (ICBIC 13), Vienna, Austria, July 15-20, 2007, Dr. R.N. Mukherjee.


263. ACS meeting, Boston, August 18-24, 2007, Dr. V.K. Singh.


265. National conference on quantum chemistry, soft computing and optimization, Kolkata, April 2008, Dr. K. Srihari.

266. Spectroscopy and Dynamics of Molecules and Clusters, V. Mamallapuram, India, February 2008, Dr. K. Srihari.


268. Trombay symposium on radiation and photochemistry, Pune, January 2008, Dr. K. Srihari.
Delivered a talk on Frontier Areas of Research in Organic Chemistry in a workshop held by DST for Sensitisation of Women Scientists Scheme at Gorakhpur on 21st June, 2007, Dr. Y.D. Vankar.

A lecture entitled Synthesis of some useful glycosidase inhibitors and related bioactive molecules was delivered in a National Symposium on Organic Chemistry and Drug Research held at Central Drugs Research Institute, Lucknow on June 28, 2007, Dr. Y.D. Vankar.

A lecture entitled Fused and bicyclic heterocycles as glycosidase inhibitors delivered in Indo-French symposium on Organic Synthesis held at Dinard, France, September 12, 2007, Dr. Y.D. Vankar.

A lecture entitled Synthetic Approaches towards Glycosidase Inhibitors delivered in Indo-Russian symposium as part of Mendeleev Conference in Moscow on September 24, 2007, Dr. Y.D. Vankar.

A lecture entitled Synthesis of Glycosidase Inhibitors: Molecules of Potential, Therapeutic Importance was delivered in an Indo-German conference held at IIT Kanpur on October 28, 2007, Dr. Y.D. Vankar.

Singapore International Chemistry Conference-5, Singapore, December 2007; presented an invited paper, Dr. Sandeep Verma.

National Organic Symposium Trust-XII, Goa, India 2007, Dr. V.K. Yadav.


International Conference on Nonlinear and Variational Analysis, University of Limoges, France, June 20-22, 2007, J. Dutta.


283. Symposium in Mathematics, Punjab University, Chandigarh, Feb 29-March 1, 2008. Delivered the talk On Certain Type of Modular Sequence Spaces, M. Gupta.

284. 5th International Conference of Dynamic Systems and Applications, Atlanta, Georgia; May30- June 2, 2007. invited lecture and chaired a session, M. K. Kadalbajoo.


293. 73rd meeting of the IMS, Pune University, Pune. Delivered the invited talk Graph Structure via its Laplacian Matrix, A. K. Lal.


304. 10th Discussion meeting in Harmonic Analysis, Department of Mathematics, Indian Institute of Sciences, Bangalore, December 28, 2007-January 1, 2008, R. Rawat.
305. Workshop on Geometry and Topology, Department of Mathematics, Pune University, Pune, January 2-9, 2008. Gave the course of lectures Introduction to Riemannian Geometry, G. Santhanam.

Physics

312. Conference: Non-perturbative gravity and gauge theories; S.N. Bose National centre for Basic Sciences, Kolkata; Dates: January 7-12, 2008; Invited talk by Dr S.D. Joglekar.
313. Conference: Non-perturbative gravity and gauge theories; S.N. Bose National centre for Basic Sciences, Kolkata; Dates: January 8, 2008; Chairing a session by Dr S.D. Joglekar
314. SERC preparatory school in High Energy Physics; BHU, Varanasi 26/11/2008; Chief Guest Dr. S. D. Joglekar
315. SERC preparatory school in High Energy Physics; BHU, Varanasi, 26/11/2008-08/12/2008; (Invited) 12 (1.5 hour) lectures on Quantum Field Theory by Dr. S. D. Joglekar
316. Invited talk in East Asia symposium on Superconducting Electronics, IIT Delhi 14th December, 2007, Dr S. Banerjee.
317. Invited talk and poster session in Department of Atomic Energy, Solid State Physics Symposium, 27th to 31st Dec. Mysore, 2007. and also was awarded the Young Achievers Award at this conference, Dr S. Banerjee
319. Invited oral lecture in Conference: 22nd National Symposium on Plasma Science and Technology (PLASMA 2007), Institute for Plasma Research (IPR) and Plasma Science Society of India (PSSI); IPR, Ahmedabad; Dates: December 6-10 (2007), Dr S. Bhattacharjee.
321. Invited talk in 18th International Conference on ION Beam Analysis; University of Hyderabad, Hyderabad, September 23-28 2007, Dr V.N. Kulkarni.
322. Invited talk in 15th International conference on Surface Modification of Materials by Ion Beams; Mumbai, September 30-Oct 5 2007, Dr V.N. Kulkarni.

323. Invited talk in International Conference cum workshop on Nanoscience and Nanotechnology; AIT, Gurgaon December 17-21, 2007, Dr V.N. Kulkarni.


327. Attended MHD Summer school; Brussels; July 2007, Dr. M.K. Verma.


329. Invited talk on Title: Anisotropic & transverse quenching of a transverse XY chain Conf.: Colloquium at Saha Institute of Nuclear Physics, Kolkata (Jul 2007), Dr. Amit Dutta.


331. Invited talk on Title: Effect of discontinuity in threshold distribution on the avalanche size distribution of a random fiber bundle model, Dr. Amit Dutta.


333. Invited for discussion for collaborative efforts in an Indo-US Agricultural Knowledge Initiative, Joint Workshop on Harnessing the Benefits of Biotechnology at the National Agricultural Science Center Complex, New Delhi on March 27-29, 2008, Dr. Asima Pradhan.


338. Delivered a Lecture on, Liquid Crystal Displays: An Introduction, in Short course on Audio and Video Processing, Coding and Displays held at IIT Kanpur, Nov 26-Dec.06, 2007, Dr. Y.N. Mohapatra.


341. Delivered an Invited Lecture on Nanotechnology: A tour of some recent developments at L.N.M. IIT, Jaipur, on December 31, 2007, Dr. Y.N. Mohapatra.


343. Delivered an Engineers Day Theme Lecture on Convergence of Technologies for Rapid Development, Professor Y. N. Mohapatra delivered the talk on this topic during the celebrations organized by the Kanpur Chapter of the Institution of Engineers at IIT Kanpur on September 15, 2007, Dr. Y.N. Mohapatra.

344. Delivered an ICPR Periodical Lecture in Practical and Theoretical Rationality: This lecture, entitled Scientific Rationality, was delivered by Professor Y N Mohapatra, Department of Physics, Indian Institute of Technology, Kanpur, on Friday, 14 March, 2008, Dr. Y.N. Mohapatra.
OTHER ACTIVITIES

(A) TECHNOLOGY DEVELOPED

Aerospace

1. Design of a novel micro-combustor, D. P. Mishra

Biological Science and Bio-engineering

2. Development of cell separation technology using supermacroporous cryogels (process and product ready for transfer), Dr. Ashok Kumar
3. Development of cigarette filter accessory using supermacroporous cryogel (process and product ready for transfer), Dr. Ashok Kumar
4. Development of bilayer wound dressing scaffold for skin tissue engineering using PVP-Iodine complex (upper layer) and gelatine (bottom layer) from supermacroporous cryogel (proof of the principle established, further development needed), Dr. Ashok Kumar
5. Development of disposable cell culture bioreactor using supermacroporous cryogels for therapeutic protein production (process ready for transfer), Dr. Ashok Kumar
6. Development of cryogel filter for leukocyte depletion from blood for safe blood transfusion, Dr. Ashok Kumar
7. Jointly with Hindustan Latex Ltd (proof of principle established, further development needed), Dr. Ashok Kumar
8. Name of the technology: RNAi-based Method to engineer plants for nematode resistance, Dr. K. Subramaniam
9. Transfer status: Ready for transfer, already one company, Nemgenix, Perth, Australia, is evaluating this technology, Dr. K. Subramaniam
11. E-Signboard, a Device-free HCI for Interactive Public Annunciation System further refinement needed, K. S. Venkatesh
12. Language Independent Book Copying Machine with Search Features further refinement needed, K. S. Venkatesh
13. A working prototype developed and tested using UHF RF IDs for automatic Vehicle Identification. Tags using ISO 18000B standard was tested on Coaches for speeds up to 80 kmph. Tags and system employing EPC standard was developed and tested and for speeds up to 50 kmph on trains
and speeds up to 150 kmph on automobiles. Further development required before technology transfer, Joseph John.

14. IGBT Gate Drive Card with integrated short-circuit protection, power isolation, extremely small pulse-width capability and special measures to prevent nuisance tripping; ready for transfer, Dr. P. Sensarma.

15. UHF RFID tag antenna, prototypes are undergoing testing at the partnering organization, Dr. A.R. Harish.


19. Foil Air Bearing for an air-cycle machine used in cooling the cabin of an aircraft under a Project from HAL. The bearing designed for 70,000 rpm has been fabricated and tested by HAL, S. Sarkar.

20. SMA based Angle Encoder, Work carried out as a part of M Project, Technology is transferred to GM, seeking for industrial partner for mass-production, B. Bhattacharya.

21. Conduit crawling vehicle for health monitoring, Work carried out as a part of M. Tech Thesis and M. Des research, Technology ready to be transferred searching for industrial partner, B. Bhattacharya.

22. SMA based morphing of Antenna and other complaint shapes, Work carried out as a part of ISRO project, Technology is being developed, B. Bhattacharya.

23. A microwave generated subcutoff multicusp plasma source for production of multielemental focused ion beams has been developed. Ready for transfer, Dr. Sudeep Bhattacharjee.

24. A special holder for performing current-voltage (I-V) characteristics of vacuum nano-gaps has been developed. Its application to measure space-charge-limited flows in a nano-gap has been accepted for publication in Applied Physics Letters (April 2008), Dr. Sudeep Bhattacharjee.

25. The invention is related to the preparation and scale up process of poly glycolic acid, poly lactic acid and poly (dl-lactide-co-glycolide) (PLG)
thermoplastic polymers that are used as matrices of molded slow-releasing drugs. These polymers are of great interest because of their excellent biocompatibility, biodegradability and mechanical strength. The bio-absorbable and hydrolysable properties have standardized these polymers as potential candidates to be used as a matrix in the form of various molded drugs. The main objective is to identify an in-expensive and convenient process to prepare the PLG polymer indigenously and to further a scale up process to meet the requirements for nano-encapsulation of drugs and proteins for sustained drug release. A project was funded to realize this objective by the Department of Science and Technology with collaboration with an Industry partner, LIFE CARE INNOVATIONS PVT LTD. Gurgaon, Dr. S. Sundar Manoharan, A patent is being filed on this invention.

(B) SOFTWARE DEVELOPED

Biological Science and Bio-engineering

1. KineRoot – software for studying kinematics of plant root growth, further development needed, Dr. Anupal Pal
2. JAVA code for Gene Expression Profiling and Gene Network Analysis, Ready for Transfer (Developed as part of DST funded project), Sanjeev Garg.
3. SCORM module developed in Brihaspati, Brihaspati _sync – live lecture delivery tools completed, Dr. Y. N. Singh.
5. Audio separation s/w and GUI Interface.Status- Submitted, Dr. P. K. Kalra.
6. Image compression s/w and GUI InterfaceStatus Submitted, Dr. P. K. Kalra.
8. Software for Determination of V-I characteristics of a Shunt Inductor, transferred and successfully deployed in an industry, Dr. P. Sensarma.

Mechanical

10. Software code titled Two-phase pressure drop and heat transfer in mini-channels developed for Indian Space Research Organization under the sponsored project ME/ISRO/20050083, S. Khandekar.
Physics

11. A 3D Monte Carlo simulation code for studying electron dynamics in a gas in the presence of electromagnetic waves has been developed. The code includes electron neutral collisions, wave amplitudes and phases. Actual experimental data on collision cross section of the gas with electron energy is taken into account. Further development of the code is in progress, Dr. Sudeep Bhattacharjee.


(C) INDUSTRIES VISITED

1. Visiting Professor, Dept. Biotechnology, Lund University, Sweden and Industry visit: Protista Biotechnology AB, Lund, Sweden, April 07- July, 07, Dr. Ashok Kumar.

2. RIKEN Brain Science Institute, Wako, Japan. December 16-23, 2007. As part of a collaborative research project, Dr. S. Ganesh.

3. University of Melbourne, Australia: from 16th to 23rd February, 2008. Visit was part of collaborative project from DBT (India) & DSIT (Australia) on Milk Neutraceuticals with regard to methodologies to be adopted and executed, P.K. Bhattacharya.


7. Unilever Research Center, Bangalore, Invited to present a talk and discussion about possible research collaboration. 7th-9th February, 2008, A. Ghatak.

8. Research Fellow, School of Chemical and Biomedical Engineering, Nanyang Technological University, Singapore, June 2007, Jayant K. Singh.


10. Visiting Assistant Professor, Department of Electrical Engineering, National Yunlin University of Science & Technology, Taiwan, July-August 2007, Adrish Banerjee.
12. Several visits to RDSO Lucknow in connection with field trials and interactions towards the research project on Trackside Bogie Monitoring System, Joseph John.
13. Visiting Assistant Professor, University of Kansas, Lawrence, USA, taught a course on Advanced Antennas, and conducted research on antennas for airborne radar applications, Jan 2007 – May 2008, Dr. A. R. Harish.
14. General Motors, Bangalore, India, Discussion on project proposal titled Prognosis and Diagnosis in Automobile industry, Dr. P. K. Kalra.
15. TVS Motor, Hosur, Bangalore, Data Collection for project titled Condition Monitoring of Engine, Dr. P. K. Kalra.
16. HAL and Hyundai Motors, Kanpur, India, Technical Discussion on Audio based Engine Condition Monitoring, Dr. P. K. Kalra.
17. Visited Centre for Advanced Power Systems (CAPS) at University of Tallhasse, Florida, USA on 29th June 2008, Dr. S. C. Srivastava.
19. Visiting Faculty at University of Windsor, Canada, May-June 2007, Dr. Nandini Gupta.
22. Visit to IHI, Japan for talks on research collaboration, February 2008, Dr. Nandini Gupta.
23. Visit to EMCO Ltd, Mumbai, for talks on research collaboration, March 2008, Dr. Nandini Gupta.
25. Attended IEEE R10 PES Chapter Chairs meeting in Beijing, China, Oct 2007, Dr. Nandini Gupta.
26. C-DAC, Trivandrum in June 2007 as a member of PRC for a Project review of NaMPET, Dr. S. P. Das.
27. SAF Yeast Sandila in Nov. 2007 and in Feb. 2008 for a Consultancy project, Dr. S. P. Das.
28. INT, France from 21-24 Jan. 2008 to take part in International Crossroads and for Research collaboration, Dr. S. P. Das.
29. IHI, Japan, to have a technical collaboration between IHI Japan and IIT Kanpur, during 20-22 Feb. 2008, Dr. S. P. Das.
30. BHEL, Bhopal, Jan 2008, Dr. P. Sensarma.
32. ISAC, ISRO Satellite Centre, Bangalore, March 2008, Dr. P. Sensarma.
36. School of Management, Xian Jiao Tong University, China, May 2007, Research Collaboration, Jayanta Chatterjee.
37. Helsinki University of Technology & Helsinki School of Economics, Finland, September, 2007, Teaching & Research Collaboration, Jayanta Chatterjee.
41. Attended the DST-SERC school on Texture and Microstructure held at IISc Bangalore between 24-28\textsuperscript{th} March, 2008, Dr. K. Mondal.
42. Visited Vizag steel, Vishakhapatnam; JSPL, Raigarh; JSW, Torangallu; Hospet Steel Hospet; Jindal stainless, Hissar; Kalyani Carpenter special steels limited, Pune, Dr. Mazumdar.
43. Visited HAL. GTRE, NAL, S. Sarkar.
44. Indian Institute of Management, Calcutta, to develop course curriculum for the VLFM program, December, 2007, 2 weeks, B. Bhattacharya.
46. DLN coating facility, Salt Lake, Kolkata, Purpose: Invited Lecture and Capabilities of this facility, August 2007, S. Bhattacharya.
47. National Center for Biological Sciences, Purpose: Research Meeting with Drs. Saudamini, Panicker, December 07, S. Bhattacharya.
49. Central Mechanical Engineering Research Institute, Research Council Meeting, December 07, S. Bhattacharya.
50. Indian Institute of Chemical Biology (Directors invitation), Invited Lecture, January 08, S. Bhattacharya.
51. Visited T.I.F.R., Mumbai during 28th Feb- 2nd March for collaborative research, Dr. Z. Hossain.
52. Visited National Centre for Education and Research and Training, New Delhi; Purpose: To develop a book Exemplar Problems in Physics, November 4-7, 2007 and March 2-5, 2008, Dr. S. D. Joglekar.
53. Visited France and Germany for research collaboration with international experimental groups; Neutron scattering group, ILL, Grenoble, France and Magnetism groups, Regensburg and Berlin, Germany, Dr. Avinash Singh.
54. Department of Chemistry and Center for Molecular and Biomolecular Imaging, Duke University, Durham, USA, Collaborative Research with Prof. W.S. Warren, Chair (Chemistry), June 2007, Dr. D. Goswami.
56. Department of Mathematics, University of New South Wales, Sydney, Australia, 1st May 1-30, 2007, J. Dutta.
58. Department of Mathematics, University of Limoges, France, June 7- July 5, 2007, J. Dutta.
60. IIM Lucknow, July 13, 2007, P. Sharma.

(D) PATENTS

1. A Device for Extracting Power from to and fro Wind, Patent Number 212643, Date of Grant: 10 December 2007, Patent Office, New Delhi. (purpose: to extract power from the waves in an Oscillating Water Column Wave Energy Device; A wind turbine of novel design) , Dr. Kunal Ghosh

POSTER DISPLAY
Conference attended outside Kanpur 315f Indian Social Science Congress, SNDT Womens University, Mumbai, 26-31 Dec. 2007.
Paper in Humanities area

2. Estimation of Inertia Tensor through experiment (patent filed), Dr. C. Venkatesan.

3. Mattiasson, Bo; Galaev, Igor Yu; Kumar, Ashok; Dainiak, Maria. Process for adsorption-based separation of bioparticles from an aqueous suspension. PCT/SE 2006/000556.


(E) AWARDS AND HONOURS

Aerospace

1. Fellow, Indian Academy of Sciences, since 2007, Dr. Sanjay Mittal.
2. Member, Steering Committee, Second Indo-US Frontiers of Engineering Symposium (FOE), 2008, Dr. Sanjay Mittal.
3. Member, Organizing Committee, REACH Symposium, IIT Kanpur, March 7-10, Hotel Timber Trail Heights, Dr. Sanjay Mittal.
5. Member, Board of Editors, Computer Modeling in Engineering & Sciences (CMES), Tech Science Press, since 2007, Dr. Sanjay Mittal.

Biological Science and Bio-engineering

1. Editorial board member of the Open Journal of Biotechnology (Bentham Science Publishers), 2007, Dr. Ashok Kumar
3. Joy Gill Chair Professor for young faculty at the Department of Biological Sciences and Bioengineering, awarded by Joy and Manmohan Gill Endowment Fund, Dr. R. Sankararamakrishnan.
5. Deepti Dubey (PhD student) own Dr. D.M. Kar prize for best oral presentation by young neuroscientist at the annual conference of International symposium on advances in Neurosciences and Silver Jubilee Conference of Indian Academy of Neurosciences (Nov 22-25, 2007 - Banaras Hindu University, Varanasi), Dr. S. Ganesh.


10. IIChE Golden Jubilee Young Achiever Award (2007), Yogesh M. Joshi.

11. IIChE Golden Jubilee Young Achiever Award (2007), A. Ghatak.

12. IIChE Golden Jubilee Young Achiever Award (2007), V. Shankar


16. Chevron Corporation Chair Professor, Dept. of Chemical Engineering, I.I.T. Kanpur (since June 2007), D. Kunzru.


19. Dow Professor M.M. Sharma Distinguished Visiting Professorship in Chemical Engineering Endowment, University Institute of Chemical Technology (UICT), Mumbai (2007), A.Sharma.

20. IITK- Research Symposium Research Award, 2007, Jayant K. Singh,
21. The Fast Track Project Grant for Young Scientists from Science and Engineering Research Council (SERC), Department of Science and Technology (DST), Govt. of India (2007), Ghosh, P.

22. Second best paper award in IASTA national Conference held in National Physical Laboratory, Delhi, India, November 14-16, 2007, Tripathi, S.N.


24. Member Working Group on Technology Development for Indian Languages (TDIL), MCIT, Govt. of India, R. M. K. Sinha.

25. Member PRSG on OCR and OHR Consortia, MCIT, Govt. of India, R. M. K. Sinha.

26. Member PRSG on English to IL MT Consortia, MCIT, Govt. of India, R. M. K. Sinha.

27. Welliver Faculty Fellowship, Boeing, USA, Dr. P. K. Kalra

28. Member of CII for Skill Development, Education and Power,

29. CII (Confederation of Indian Industries), Dr. P. K. Kalra.


31. Member of the International Advisory Committee of EMCO Limited, Mumbai, India (2007-2010), Dr. S. C. Srivastava.

32. Re-nominated as Member DST-SERC Project Advisory Committee Member on Electrical, Electronics and Computer Engineering for 3 years (2007-2009), Dr. S. C. Srivastava.

33. Prize Paper Award at the International Conference on Power Electronics, ICPE-07, at Daegu, S. Korea, Dr. P. Sensarma.

34. Prize Paper Award at the National Conference on Power Electronics, NPEC 2007, at Bangalore, India, Dr. P. Sensarma.

35. Best Paper Award at the National Conference on Power Electronics, NPEC 2007, at Bangalore, India, Dr. S. P. Das.


38. 21st Century Award for Achievement by IBC Cambridge, England (2007), Dr. S. N. Singh.


41. Best Paper Award of 14th International Conference on Intelligent System Application to Power Systems (ISAP07) held during Nov 4-8, 2007, Kaohsiung, Taiwan, Dr. S. N. Singh.
42. Administrator, IEEE Online Communities (January 2006 to date), Dr. S. N. Singh.
43. Moderator, IEEE Online Communities (April 2003 to date), Dr. S. N. Singh.
44. Editorial board member, International Journal of Electrical and Power Engineering, Dr. S. N. Singh.
46. Editor of International Journal of Systems Signal Control and Engineering Application, Dr. S. N. Singh.
48. UKIERI Standard Research Award of £144,000 for the project on Innovations in Intelligent Assistive Systems, IITK and University Ulster, UK, Dr. L. Behera.
49. Amity Best global HR Faculty award, Ashok K Mittal.
50. President Operational Research Society of India, Ashok K Mittal.
51. Vice President and Director Quality Circle Forum of India Hyderabad, Ashok K Mittal.
52. Member, Bihar Council of Science & Technology, Sinha, Arun P.
55. Member, Academic Senate, Indian Institute of Technology Kanpur Roorkee, N. K. Sharma.
56. Member, Board of Governors, International Academy of Business and Economics, USA, R.R.K. Sharma.
57. Member, Board of Governors, Society of Management Science, IIM Ahmedabad, India, R.R.K. Sharma.
60. Reviewer for the following journals/conferences: (i) Journal of workplace rights, (ii) Dark Side Case Writing Competition CMS AOM, USA, Rahul Varman.
62. Member, International Advisory Committee, International Conference on Knowledge Management, ICKM 2008, Columbus, Ohio, Jayanta Chatterjee.


64. Member: Program Committee-2008-EFA Meeting- Florida 44th Annual Meetings, April 9 - 12, 2008; TradeWinds Island Grand Resort; St. Pete Beach, Florida, B. V. Phani.


66. Reviewer, 44th Annual Meetings of Eastern Finance Association, April 9 - 12, 2008; Trade Winds Island Grand Resort; St. Pete Beach, Florida, B. V. Phani.


68. Member Program Committee- 11th Annual Convention of the Strategic Management Forum; May 10 - 12, 2008, B. V. Phani.


73. Member, Management Committee of Endowment Fund-IIT Kanpur, 2007-08, B. V. Phani.

74. Poster paper titled Sinter-Bonding of Stainless Steel Substrate with Boride Based Cermets (B. Palanisamy and A. Upadhyaya) was awarded the Best Poster Award in the International Symposium on Advances in Stainless Steels (ISAS 2007) held between 9-11 April 2007 at Chennai.


76. nominated on the panel of foreign reviewers, Austrian Science Foundation (FWF), 2007-present, Dr. B. Basu.
78. Nominated as member of the editorial board of Materials Science and Engineering: C - Materials for Biological Applications (Elsevier Journal), Dr. B. Basu.

79. International Coble Award from the American Ceramic Society. The award shall be presented in the Department of Atomic energy (DAE) Solid State Physics Symposium on October 6, 2008 in Pittsburgh, USA, the Award by the Department of Atomic energy (DAE) Solid State Physics Symposium. This award honors late Professor R. L. Coble (Emeritus Professor, MIT, USA). Since the inception of this award in 1996, Dr. Bikramjit Basu will be the first Indian from India and second from Asia to receive this award.

80. INSA Scientist of the Year 2008 Award by The Indian National Science Academy, Dr. Ashish Garg.

81. DAE Young Scientist Award for the Year 2008, Dr. J. Ramkumar.

82. President of the Indian Society of Theoretical and Applied Mechanics (ISTAM) for the year 2008, Dr. Gautam Biswas.

83. 2008 SAE Ralph R. Teetor Educational Award recipient. The award is given to young engineering educators in automotive engineering, Dr. Avinash Agarwal.

84. Chair the Automobile Technology Park under the Board for Smart Materials Research & Technology (B_SMART) of the National Program on Smart Materials, Dr. N. S. Vyas.

85. Chair a session entitled Digital Empowerment-Outcome of Desktop Revolution as a part of the International Conference on Engineering Education and Research (ICEER) 2007, to be held in Victoria (Australia) in December 2007, Dr. A. Chatterjee.

86. Indian National Science Academys INSA Young scientist award for the year 2007 on December 23rd 2007, Dr. Avinash Agarwal.

87. Member of the Editorial Board of ISurfSE: International Journal of Surface Science and Engineering published by Inderscience, UK, Dr. V. K. Jain.

88. Chosen for the Young Scientist Award (2007-08) - Engineering Sciences given by the Indian Science Congress Association, Dr. J. Ramkumar.

89. Elected Fellow of the National Academy of Sciences, India. He has also been elected as the Indian Representative to the apex body for promotion of research in Mechanics, International Union of Theoretical and Applied Mechanics (IUTAM) for four years wef January 2008, Dr. Gautam Biswas.

90. Invited by the Editor of Journal of Clinical Rehabilitative Tissue Engineering Research (CRTER) to be a member of the International Reviewer Board, Dr. Kamal Kar

91. Fellows of Indian Academy of Engineering, Professors P. Munshi and V. Eswaran.
92. The doctoral work of Atul Srivastava (PhD-2006) has been given the best thesis award of INAE. The title of his thesis: Optical imaging and control of convection around a KDP crystal growing from its aqueous solution.

93. The Korean Academy of Science and Technology (KAST) has invited Dr. Gautam Biswas to deliver an invited talk on Educational Environment in India: A review at the symposium. The 10th KAST International Symposium on Interdisciplinary Education for Science and Technology Innovation scheduled to take place from September 13-14, 2007 in Seoul, Korea.

94. Honored with the prestigious Shanti Swarup Bhatnagar prize in Engineering Sciences, Dr. Kalyanmoy Deb.

95. Invited to join the Editorial Advisory board of Recent Patents on Mechanical Engineering, a publication of Bentham Science Publishers Ltd., Dr. Avinash Agarwal.

96. Conferred for the Alkyl Amines UICT Foundation Day Young Scientist Award for the year 2007, Dr. Avinash Agarwal.

97. Chosen to receive the Grover Medal for Young Scientist by the International Heat Pipe Committee, Dr. Sameer Khandekar.

98. Invited to join the review board of International Journal of Computational Science, Dr. Bhaskar Dasgupta.

99. Invited to join the editorial board of IJMTM - International Journal of Machine Tools and Manufacture, Dr. V.K. Jain.

100. The PhD work entitled Optical imaging of convection around a KDP crystal growing from its aqueous solution by Atul Srivastava has been chosen for the best-PhD thesis award (2006) during the National Laser Symposium held at RRCAT Indore.

101. Invited by the IEEE Industrial Electronics Society to be on their panel of reviewers (on papers related to Thermal management/modeling and experimentation/applications), Dr. Sameer Khandekar.

102. Delivered a keynote address entitled Mathematical Modelling of Turbulence at the National Conference on CFD Applications in Power and Industry Sectors organized by the Corporate R&D of BHEL Hyderabad during 17-18 November 2006. Further, he chaired a session on Applications of CFD in Power Plant Accessories, Dr. Gautam Biswas.

103. Invited to join the editorial board of International Review of Mechanical Engineering (IREME), Dr. P. K. Panigrahi.

104. Selected for the Young Scientists award for the year 2006 by the Systems Society of India. The award will be presented on 2nd November 2006 in the inaugural session of the National Systems Conference, Dr. Bishakh Bhattacharya.
105. Elected Fellow, American Society of Mechanical Engineers (ASME), Dr. Gautam Biswas.


107. Selected for Innovative students project Award-2006 (based on the M.Tech. Thesis) by Indian National Academy of Engineering, New Delhi, Mr. Prabhat Agnihotri.

108. Honored for his citations, Dr Kalyanmoy Deb.

109. has been elected Fellow of the Indian Academy of Sciences, Bangalore, Dr. Kalyanmoy Deb.

110. Dr. V.K. Jain has been appointed to the Editorial Board of International Journal of Advanced Manufacturing, a Springer-Verlag publication.

111. Dr. Sameer Khandekar has been granted the DAE Young Scientist Award of BRNS, DAE to work on the research project entitled, Development of a Novel Pulsating Heat Pipe-based Compact Heat Exchanger.

112. Dr. Anupam Saxena has been granted the AICTE Career Award for Young Teachers for a period of three years.


115. Membership of International Association of University Professors of English, Switzerland, G. Neelakantan.


118. Rated as outstanding teacher for the course PHY624-Magnetism in materials, Dr. Z. Hossain.


120. Center of Excellence (COE) award for travel, stay and special invited lecture at the Advanced Research and Education Center of Nano Vision Science, Shizuoka University, Hamamatsu, Japan (December 14 – 20, 2007), Dr. Sudeep Bhattacharjee
121. Swarnajayanti fellowship 2006. Awarded by Department of Science and Technology, India, Dr. M.K. Verma.

122. Best Poster Award to the student of Dr. R.C. Budhani for the poster Pulsed laser deposition of epitaxial CrN films on (100) MgO by Gyanendra Singh, N. K. Pandey and R. C. Budhani, Presented at IUMRS-ICAM 2007. [RCB]


124. Ramanna Fellowship, DST, Dr. J. K. Bera.


126. Fellow, Indian National Science Academy, New Delhi, Dr. V. Chandrasekhar.

127. Fellow, National Academy of Sciences, Allahabad, Dr. V. Chandrasekhar.

128. Prof. J N Mukherjee, Award (2008), Indian Chemical Society, Kolkata, Dr. N. S. Gajbhiye.

129. AVRA Young Scientist Award 2006 (2007), Dr. F.A. Khan.

130. Awarded Chemical Research Society of India (CRSI) Bronze Medal 2008, Dr. R.N. Mukherjee.


132. Member, Editorial Board, Research Letters in Inorganic Chemistry (2008 – ), Dr. R.N. Mukherjee.

133. Fellow, Indian National Science Academy (2008) , Dr. R.N. Mukherjee.

134. J C Bose Fellowship by the Department of Science & Technology, New Delhi, 2008, Dr. R.N. Mukherjee.

135. Member, Advisory Board of Dalton Transactions (RSC) (2008 – 2009), Dr. R. N. Mukherjee.


137. Awarded a collaborative joint research project with Prof. Ebbe Nordlander, (University of Lund, Sweden) (2007–2011), Dr. R.N. Mukherjee.

138. Vigyan Ratna Samman of U.P., Dr. V. K. Singh.

139. Bhagyatara Award of Panjab Univ, Dr. V. K. Singh.

140. FASc, Ramanna Fellow, Dr. V. K. Yadav.

141. Member, Steering Committee, Association for Logic in India, M. Banerjee.

145. Senior Associate Editor, Applied Mathematics and Computation, M. K. Kadalbajoo.

(F) CONTINUING EDUCATION ACTIVITIES

Aerospace


Biological Science and Bio-engineering


Chemical

3. Got sanction for DST SERC School on Newer Optimization Techniques for Chemical Engineering Applications to be conducted during June 09-14, 2008, Sanjeev Garg.

Civil

8. 2 Lectures at AirForce Administrative College, Coimbatore, Tripathi, S.N.,

Computer Science


Electrical


Industrial & Management

17. Organized a Self-sponsored course on Supply Chain Management at IIT Kanpur through SIIC, Jan-Feb, 2008. 55 industry candidates, Peeyush Mehta.

Materials and Metallurgical
18. A short course on Modeling in Metals Processing: concept, theory and application, organized by Dr. D. Mazumdar was held at IIT Kanpur between 21 to 24 December, 2007. The course was attended by 19 participants from academia and industries and research institutes.


20. Organized a short-term course on Ultrafine grained materials and Nanocomposites (NANOMAT-2007), 12-16th March 2007, sponsored by Centre for Development of Technical Education (CDTE), IIT-K. More than 10 participants from Academic Institutes and R & D Laboratories across the country took part, Dr. B. Basu and Dr. Gouthama.

Mechanical


22. Inaugural Joint Iitk – Ntu Singapore Workshop In Mechanical, Aerospace, And Industrial Engineering, 10-11th July 2007, organized at the Department of Mechanical and Aerospace Engineering, NTU Singapore in the areas of computational mechanics, multi-scale modeling, micro-scale transport, energy, and supply chain management. Coordinators: K. Muralidhar and M. Damodaran.


27. **Course Coordinator - QIP Short Term course titled Modern Experimental Techniques in Mechanics of Fluids and Solids, IIT Kanpur, May 07-11, 2007 (in association with Dr. V. Venkitanarayanan, Department of Mechanical Engineering), 40 participants, S. Khandekar.**

28. **Workshop Coordinator - National Workshop titled Fuel Cell Technology: Progress and Prospects, IIT Kanpur (supported by Shastri Indo-Canadian Institute, New Delhi), Kanpur (UP), 2007 (about 40 participants including international speakers), S. Khandekar.**


**Humanities and Social Sciences**

30. **A Lecture on Success in Interviews on 11 August 2007 during the Workshop on Interview Skills organised by the Department of Mathematics and Statistics, IIT Kanpur, T. Ravichandran.**

31. **Lectures on Listening Skills, Reading Skills, Telephone Skills Netiquettes, Oral Presentation, Successful Interviews to the Korean participants of the Summer Course on Organic Electronics 2007 held between 25 June and 20 July 2007 organised by Samtel Centre for Display Technologies, IIT Kanpur, T. Ravichandran.**

32. **Conducted a Workshop: For CA trainees of Institute of Chartered Accountants of India, Kanpur, L. Krishnan. Two sessions: Aug 2007 1) Team Building 2) Interpersonal Communication, Two sessions: Feb. 3, 2008 1) Team Building 2) Interpersonal Communication**


34. **Conducted a 1-day Workshop at NABARD, NBSC, Lucknow, October 6, 2007: Personality assessment with Cattells 16 PF (Training session), L. Krishnan.**

**Mathematics and Statistics**

35. **Co-ordinator, 2nd Indian Winter School on Logic, January 14-26, 2008, IIT Kanpur, M. Banerjee.**

(G) PARTICIPATION IN HIGH LEVEL INDUSTRY ACADEMIA INDUSTRY INTERACTION PROGRAMME DURING SUMMER

Aerospace

1. Elected as an executive member of the combustion institute (India Section) for 2007-2009.

Chemical

3. Reviewed two papers for Journal of Chemical Physics (a journal published by American Institute of Physics), P. A. Apte.
5. Chairman, Plenary Session during Overview of Membrane based Effluent Treatment at IIT-Kanpur, in All India Seminar on Zero effluent discharge-latest development In recycling during 22-23 December, 2007; Organized By The Institute of Engineers (India) West Bengal State Centre Chemical Engineering Division at Kolkata, P.K. Bhattacharya.
7. Member, PAC (Chemical Engineering), DST, N. Delhi, D. Kunzru.
9. Designed, fabricated and operated a Spinning Disc Reactor as part of Process Intensification efforts. Cost approx. Rs. 70,000/- Imported one costs about Rs. 55 lacs (It has better instrumentation). Cooperative efforts of Students
Anuj Kumar, Aviral Chopra, K Malayaz, fabricated by Mr. Visvakarma in Chemical Engineering Department workshop, J. P. Gupta.

10. Council Member (Engineering & Materials), Indo-French Centre for the Promotion of Advanced Research (IFCPAR), New Delhi, 2008-2010. A. Sharma

11. Member, Board of Governors, Indian Institute of Science Education and Research (IISER), Mohali (2007-2009), A. Sharma.


13. Member, Research Advisory Committee, Indian Association for the Cultivation of Science, Kolkata (2007-09), A. Sharma.


15. Member, Sectional Committee for Engineering and Technology, Indian National Science Academy (2006-08), A. Sharma.

16. Member, Sectional Committee on Chemical Engineering and Biotechnology, Indian National Academy of Engineering (2005-2008), A. Sharma.

17. Member, Program Advisory Committee for Chemical Engineering Program (PAC-ChE), Department of Science and Technology, New Delhi (2007-10), A. Sharma.


20. Member, External Review Committee, School of Computational Sciences, Korea Institute of Advanced Studies (KIAS), Seoul (ten yearly review; 2007), A. Sharma.

21. Member (UGC Nominee), Advisory Committee, Center for Advanced Studies, Phase VII at University Institute of Chemical technology, Mumbai (2007-), A. Sharma.

22. Member (UGC Nominee), Advisory Committee, Center for Advanced Studies, Department of Chemical Engineering, Benaras Hindu University Institute of Technology (2007-), A. Sharma.

23. Member, SSB Prize Advisory Committee in Engineering Sciences (2007), A. Sharma.

24. Project granted by DRDO (Rs. 80 lacs approx) on Metal impregnated activated carbon fibers for the control of chemical warfare agents, N. Verma.

Electrical

26. Submitted a joint research proposal in collaboration with Telecom Management sudParis to IFCPAR, Dr. Y. N. Singh.

Materials and Metallurgical

27. Attended the Discussion Meeting on Processing of ODS Alloys for Clad Tubings in Fast-Breeder Reactor held at IGCAR, Kalpakkam on May 21, 2007, Dr. A. Upadhyaya.

28. Attended the Discussion Meeting on Material Requirements for ITER Project held on September 14, 2007 at IGCAR Kalpakkam, Dr. A. Upadhyaya.

(H) ANY OTHER IMPORTANT ACTIVITY NOT SPECIFIED IN ABOVE COLUMNS

Aerospace

29. Elected as an executive member of The combustion institute (India Section) for 2007-2009, D. P. Mishra.


Biological Science and Bio-engineering

31. Received a major World Bank-funded project (Rs.5.5 crores) through Indian Council of Agricultural Research (ICAR), for a period of five years. This has been awarded to a consortium led by Dr. K. Subramaniam to apply the RNAi-based technology to investigate plant-nematode interactions. Other members of this consortium are National Research Centre of Plant Biotechnology, Indian Agricultural Research Institute and Indian Institute of Pulses Research.
32. Received Extramural Grants, Title of the research program – Creating a BMP-responsive reporter cell line, Granting agency - CSIR, Amount - Rs. 11,06,000, Date of commencement: April, 2007, Dr. A. Bandopadhyay.
33. Title of the research program – Identification and Functional characterization of BMP target genes in Osteogenesis. Granting agency: DST, Amount: Rs. 22,86,000, Date of commencement – 30 May, 2007 Dr. A. Bandopadhyay.
34. Joined editorial board of Indian Journal of Biomechanics published by Indian Society of Biomechaincs, 2008, Dr. A. Pal

Computer Science

36. Fellow of Indian National Science Academy, October 2007, Manindra Agrawal.
37. Fellow of National Academy of Sciences, August 2007, Manindra Agrawal.
39. Program Committee Member, FSTTCS 2007, Sumit Ganguly.
41. Member Working Group on Technology Development for Indian Languages (TDIL), MCIT, Govt. of India, Member PRSG on OCR and OHR Consortia, MCIT, Govt. of India, R.M.K. Sinha.
42. Member PRSG on English to IL MT Consortia, MCIT, Govt. of India, R.M.K. Sinha.

Industrial & Management

44. Member, Working Group on Power for the 11th Five-Year Plan (Sub-groups on Policy, and Regulatory Issues and Financial Issues), Planning Commission, Government of India, Singh, Anoop.
50. IPR cell (Chair) MHRD New Delhi, Ashok K Mittal.
52. The Institutional Framework for Rural Energy Service from Renewables Agency: Dept. of Economics, University of Cambridge, Cambridge (UK). (with Dr. Karsten Neuhoff and Mr. James Cust of Dept. of Economics, University of Cambridge, UK), Singh, Anoop.
53. Principal Investigator, NAIP, National Agriculture Innovation Project. Govt. of India, ICAR & World Bank, (NAIP/IME/20070258), Jayanta Chatterjee & Runa Sarkar.
57. Principal Investigator, Technology Seed Fund Support (Technology Development Board), 2007-08, B. V. Phani.
58. Principal Investigator, SIDBI Innovation and Incubation Centre, 2007-08, B. V. Phani.
60. Principal Investigator, Technopreneur Promotion Program (TePP), 2007-08, B. V. Phani.
64. Principal Investigator, Small Industry Cell, IIT Kanpur, B. V. Phani.
65. DRDO Advanced research project on crypt analysis using machine learning algorithms, April 2008, B. Chandra.
66. DST has sanctioned a project on Developing new split measures for classification in decision trees, B. Chandra.

Materials and Metallurgical

67. As a part of the Industrial Tour (MME390), the III yr MME students visited TATA Motors factory at Lucknow and Ordnance factory at Kanpur. The tour was conducted by Dr. K. Mondal.
68. Drs. R. Balasubramaniam, A. Upadhyaya and B. Basu were Convenors and Co-Convenors, respectively, for the International Conference on Metals and Alloys: Past, Present and Future that was held at IIT Kanpur between 07 and 10 December 2007. (Detailed conference report is attached herewith).
69. Dr. B. Basue was the Convener the International Workshop (Theme Meeting) on Nanoceramics and Nanocomposites, held at IIT Kanpur during 8-9 September, 2007 (http://www.iitk.ac.in/infocell/announce/nanoceram/).

Mechanical

73. Designed a cascade tunnel with a sweeping row of wake-generating cylinders to mimic the stator-rotor interactions, S. Sarkar.
74. Coordinated the activities on behalf of IIT Kanpur towards a national initiative on Futuristic Technologies for Gas Turbines in the country, S. Sarkar.


76. Department of Biotechnology, Government of India, Integrated Dielectrophoresis based concentration and real time PCR based identification of food pathogens in a single microchip, Submitted. (August 2007). (Amount: Rs. 49,00,000), S. Bhattacharya.


78. Bhaba Atomic Research Center, Exploratory studies for micro-Nanoscale structures and studying micro/ nano-scale transport, Submitted (November 2007). (Amount: Rs. 50,00,000), S. Bhattacharya.

79. Organized INDO-GERMAN WINTER ACADEMY (A Brainstorming Academic Conclave on several exciting research themes, attended by the bright young undergraduates of various IITs and University of Erlangen-Nuremberg, Germany) at IIT Guwahati together with Prof. Subhash Mishra (IIT Guwahati), G. Biswas.

Humanities and Social Sciences

80. Member of advisory committee of Pragat Shikshan Sansthan, Phaltan, Maharashtra, A. Madan.

81. Member of advisory committee of Early Literacy Project, New Delhi, A. Madan.

82. Visiting faculty for dual-mode (contact and online) MA programme in Elementary Education, conducted by Tata Institute of Social Sciences, Mumbai, Madan.

83. Invited as Visiting Professor by Kyushu University, Japan (August to November 2007), B. Bhushan.


85. Festival Chairperson, Alfaaz, the IITK Literary Festival, Mar. 2008, S. Mathur.
86. Festival Chairperson, Umang, the IITK Media Festival, Jan. 2008, S. Mathur.
87. 2006-Present Faculty coordinator for English Speaking and Writing Instruction for Lakshya, an adult education programme run by the DRPG office, S. Mathur.
88. Beyond blaming the victim. The Hindu. (June 3, 2007), J. Das, & Kumar Ravi Priya.

Physics

89. Actively participated in department/institute administration (member DPGC, workshop, warden), Dr. Z. Hossain.
90. Refereed papers for Physical Review B, Solid State Comm, Dr. Z. Hossain.
91. Examiner for Ph.D. thesis from Jamia Millia Univ, Delhi, Dr. Z. Hossain.
92. A summer course (PHY103) during 2007 to undergraduate students with backlogs in this particular subject, Dr. S. Bhattacharjee.
93. Involved in installing a major facility for cross disciplinary research, namely 1.7 MV Tandetron accelerator, with microprobe and heavy ion irradiation. Beam lines have been designed and fabricated for carrying out research in solid state materials and other cross disciplinary field with a focus on development of futuristic technology. The facility is expected to be ready by mid June 2008, Dr. V.N. Kulkarni.
95. Involved in the installation of 1.7MV Tandetron accelerator, the major facility coming up at IITK, Dr. S. Dhamodaran.
96. Involved in On re-structuring of UG/PG curricula in India, white paper prepared as a member of a Discussion Group set up jointly by the three Indian Academies of Science as preparation for the next Five Year Plan, Dr. S. Raychaudhuri.
97. Guest Faculty for the course New Physics at the LHC : Generic Framework at the 23rd SERC Main School on Theoretical High Energy Physics, IIT Mumbai (Feb 12-16, 2008), Dr. S. Raychaudhuri.
99. Member of the National Organising Committee for the DAE Symposium on High Energy Physics, Benaras (Jan 2009, scheduled), Dr. S. Raychaudhuri.
100. Member of the Programme Advisory Committee for the International Centre for Theoretical Studies, to be set up at Bangalore by the DAE, Dr. S. Raychaudhuri.

101. Short Video clips [~15 minutes] for 6 experiments were made. Also, a lecture on Error Analysis was video taped [~45 min]. These are available in the Brihaspati, Dr. S.C. Agarwal.

Chemistry


104. Guided summer research fellow of IASc, Bangalore, Dr. F.A. Khan.

105. Collaborative research at the Jacobs University, Bremen, Germany for 23 days (03 Dec 2007 to 26 Dec 2007) through the support of Royal Society of Chemistry (RSC) Journal Grants, Dr. J.N. Moorthy.

106. Invited to give a set of ten lectures on Classical-Quantum correspondences and semiclassical methods in Chemistry at the Inorganic and Physical Chemistry division, Indian Institute of Science, January 2008, Dr. K. Srihari.

107. DST PAC member, Dr. V.K. Yadav.

Mathematics and Statistics

108. Member, Steering Committee, Association for Logic in India, M. Banerjee.


111. Senior Associate Editor, Applied Mathematics and Computation, M. K. Kadalbajoo.