FIRST CONVOCATION





National Institute of Technology Rourkela

PROGRAMME

10.00 hrs: Academic Procession Arrives (All present may kindly rise).

10.02 hrs: Invocation

10.05 hrs: Convocation deleared open by the Chairman, Board of Governors.

10.06 hrs: Welcome address and presentation of report by the Director.

10.36 hrs: Award of Degrees.

11.10 hrs: Presentation of Medals and Prizes.

11.20 hrs: Taking of pledge by the degree holders.

11.25 hrs: Address by the Chairman, Board of Governors.

11.40 hrs: Convocation address by the Chief Guest.

12.10 hrs: Convocation declared closed by the Chairman, Board of Governors.

12.11 hrs: National anthem (All present may kindly rise)

12.12 hrs: Academic procession leaves (All present may kindly rise).

Entertainment programme 18.30 hrs.

Venue: Auditorium





NATIONAL INSTITUTE OF TECHNOLOGY ROURKELA

CONVOCATION - 2003

APRIL 12, 2004

Chief Guest

Prof. R. Natarajan

All India Council for Technical Education

NIT ROURKELA CONVOCATION ADDRESS

April 12, 2004



Prof. R. NATARAJAN Chairman

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION NEW DELHI

Respected Chairman, Board of Governors, Director, Deans, Heads of Departments, Faculty, Staff and Students, Distinguished Invitees, and Successful Graduating Students!

Let me first offer my Heartiest Congratulations to all the Graduating Students, as you enter the 'laboratory' of work and real life, I wish you all Success in your Professional and Personal Careers.

During my brief Convocation Address, I shall deal with several aspects relating to: The Current Status of Technical education in India, some Current Issues of Significance, and Quality Assurance and Accreditation.

1. THE CURRENT STATUS OF TECHNICAL EDUCATION IN INDIA

The new millennium is characterized by several distinctive features and offers a wide spectrum of challenges and opportunities. The pace of technology advancement and the magnitude and the rate of change that it causes, lower predictability and forecastability.

With the emergence of the country as an independent nation more than five decades ago, there was a significant qualitative upgradation in the job requirements and work ethos of engineers : from mere

maintenance and operation of complex technological systems to their planning, design and production, including innovation. It was recognized that in addition to engineers capable of methodical and repetitive work, the country required man power possessing knowledge and skills in advanced manufacturing; automation; informatics; telematics; energy; material, aerospace and nuclear technologies; nanotechnology; MEMS; ICT; etc. In addition to quantitative expansion, a number of higher technological institution and national R&D labs ware setup in order to produce man power and R&D of international standards.

The tertiary education system in the country has several stake holders whose concerns and expectation cover a wide range. There are several asymmetries in the Technical Education System, which cause disparities, imbalances and inequities. The new millennium inputs to the Education System, viz., the XXI century learners, have special characteristics, such as being technology and IT-savvy, and having short attention spans, lower tolerance for boredom, and aversion to static media. The new millennium requirements of the output from the tertiary education system have been debated and discussed in a number of Conferences and Workshops; they are largely dictated by the emergence of the knowledge economy and society.

There are several important implications of the changes in the inputs and outputs. The emerging world of work and characteristics of the new generation employees are significantly changing the employment landscape. There is a host of new challenges confronting tertiary and technical education globally, requiring reforms and responses .A significant paradigm shift is taking place also in the Teaching-Learning Processes, particularly influenced by Educational Technology (ET) and Information and Communication Technology (ICT). The tertiary and technical education systems are becoming very sensitive and repetitive to Quality Assurance issues, with Accreditation systems playing an important role.

2. SOME ISSUES OF SIGNIFICANCE

2.1 On Quality and Quantity

Quality and Quantity need not be mutually exclusive . There are Universities with enrollment of more than 10,000 students which have succeeded in implementing high quality in their educational activities. What is essentially required is a Quality Culture, as well as, Pride in one's Institution, Department and Academic activities.

There are several barriers to quality in our country. The most important barrier is the sab chalta hai attitude. It is only because of the Liberalization and Globalization that several of our Industries and Businesses have, not only incorporated Quality in their products and services, but also have sought and obtained international certification for Quality. The Accreditation Initiatives of the National Board of Accreditation (NBA) of AICTE, and the NAAC of the UGC, have definitely created an awareness of

Quality in Education among our Institutions, many of whom are responding positively to these challenges.

2.2 Market Forces

Market forces are indeed a powerful stimulus for undertaking activities which are required and demanded by stake-holders and customers. For example, it was because of the projected demand for very large number of Software. Professionals that intake capacity in IT-related courses was increased substantially, a few years ago. Unfortunately, the IT sector underwent a depression which was automatically transmitted to the Education sector. However, unlike the Corporate sector, in view of the long gestation period in the Education Sector, corrective action is impeded by the inertia of the system.

2.3 Role of Regulatory Bodies

The Regulatory Bodies in Education - whether Higher Education or Professional Education – are the guiding forces for ensuring conformance to Norms and Standards. Without them, there will be utter chaos. As in matters of Planning and Law, for instance, it is in the implementation and enforcement that the country can hope to achieve progress. All the stakeholders have the responsibility for respecting the Regulations and Norms & Standards.

2.4 Attractiveness of the Engineering Profession

The attractiveness of a Profession is almost exclusively dependent upon the attractiveness of the jobs that become available in the employment market. Engineers not only seek employment in their areas of study, but also migrate to other sectors. This is particularly so in recent times, as the best students among the school-leavers prefer Engineering as the career. In fact, the science educators are quite concerned about the impact of this trend on science education in this country. In the recent past, in view of decline in employment opportunities, the Engineering profession has been losing its attractiveness; particularly because of the IT depression.

3. THE ROLE OF TECHNOLOGY IN TECHNICAL EDUCATION

3.1 Introduction

Technical Education is the base, the foundation, on which the whole spectrum of Technologies – IT, Materials Technology, Construction Technology, Manufacturing Technology, Automotive Technology, Aerospace Technology, Ocean Technology , Energy Technology, Environmental Technology –has been built up, giving us a lifestyle and a standard of living quite unlike what our parents experienced just a generation ago. Technical Education includes Knowledge, Skills and Attitudes, all of which contribute to the effective practice of the Engineering Profession.

There are at least two ways in which Technology provides inputs to Technical Education:

- The accumulated Knowledge and Experience of the various shades and forms of Technology add to the content of Technical Education, which needs to be transmitted to contemporary students.
- Technical Education, like all Education, is about Teaching and Learning and there are several Technologies which can improve the effectiveness of the Teaching-Learning process, e.g. I.T., E.T., etc. While the most explicit impact is through more effective and convenient ways of information delivery, developments are also taking place in content creation, such as authoring systems.

There is thus a reciprocal inter-relationship between Technology and Technical Education. The Technology-Technical Education Nexus is undergoing a rapid transformation, in both directions. Significant interaction and integration among technologies are taking place, leading to new words such as 'Communications' (Computers + Communications), 'Edutainment' (Education + Entertainment), 'Infotainment' (Information + Entertainment), etc. The boundaries between traditional disciplines are getting blurred, and in the future, Engineers will be required to be inter- and multi – disciplinary in competence and outlook.

3.2 Commercial Exploitation of Technology

The major aim of Technology Development is to market the developed Technologies in a commercially successful manner. An important question in this regard is:

Why are certain Technologies <u>not</u> commercially viable, even though they are technologically feasible? For example, solar energy devices, desalination of sea water, extraction of syncrude from tar sands, coal liquefaction, petrocrops, etc.

The answer is: There are alternative ways of satisfying the needs in other advantageous ways. The common criterion is most cases is lower first cost. What we need is a mind-set to think of long-term gains at the expense of short term inconvenience. One methodology which is fast gaining in acceptance is "life-cycle costing".

There are many barriers to commercialization:

- > High first cost, even if life-cycle costs are competitive
- Elements of reliability

- Ease of maintenance and repair
- Availability of "better" alternatives: for example,
 - · Solar desalination vs. RO
 - Solar thermal power vs. conventional power
 - Woodstoves vs. kerosene and LPG stoves
- Capacity limitations
- Convenience in use, e.g., solar cooker.
- Durability (exposure to the elements)
- Dependence only on rural markets
- Half-baked technology development
- Performance deterioration, due to inadequate O & M schedules, exposure to the elements, lack up technology background of users, etc.

There are also some sociological and psychological factors. Most Renewable Energy projects, for example, are government-supported as 'welfare' projects; the users expect government subsidy, even free supply of devices. There often is no commitment for maintenance, either by sponsor or user.

3.3 Principles of Learning in the XXI Century

The OECD center for Educational Research and Innovation has enunciated the following Principles for Learning in the XXI Century:

- Learning will become an essential part of everyday activity.
- Access will need to become as universal as possible.
- Learning technologies will need to respond flexibly to learner needs.
- Learning suppliers will need to adapt their ways to meet the changing needs of clients.

- Government will need to play an active role in supporting the learning infrastructure but should not expect the control of the learning agenda.
- Learning will need to be a collaborative enterprise.

4. QUALITY, ACCREDITATION AND RANKING ISSUES

4.1 Introduction

Quality is of intrinsic importance to all sectors - Industry, Business, Services.

Since the integration of the world in economies about ten years back, it has assumed prime importance. While the response of the Corporate Sector has been timely and satisfactory - with many companies acquiring Quality recognition, such as tSO-9000 and QS-9000 certification - the Educational Sector has been less responsive. The NBA (National Board of Accreditation) for Technical Education, and the NACC (National Assessment and Accreditation Council) for General Education, are laudable initiatives of the AICTE and UGC respectively for infusing quality into the educational sector.

4.2 The Evolving Concept of Quality

Historically the concept of quality has evolved from the manufacturing sector during the past few decades, wherein they were associated with products such as air conditioners, cars, cellular phones, semiconductors, etc. In those industries, quality was about minimizing variance and ensuring that the manufactured products conformed to clear specifications. The essence of this concern was that customers could expect the product to perform reliably. This focus on minimizing variability prompted more and more companies to adopt quality control practices, exemplified by SQC. It is important to realize that customers developed new uses for products as novel features are added. Thus, continuous experimentation and the development of new and innovative features play an important in shaping consumers perceptions of quality in software. A new view of quality is required to access an organization's IT infrastructure; the perspective consists of a synthesis of conformance, adaptability and innovation.

4.3 Quality Considerations In Software Engineering

The Software Engineering Institute (SEI) of the Carnegie Mellon University has developed a set of Capability Maturity Model (CMM) levels for assessing and certifying Quality in Software Engineering; this has come to be regarded as the most prestigious recognition in the world of IT. CMM is an application of TQM to Software Engineering. Two top Indian Software power houses, viz. Satyam Computers and TCS, have recently earned the distinction of securing a level- 5 CMM rating from the institute. Ron Radice, an IBM veteran and Director of the SEI at Pittsburgh, has worked closely with many companies, assisting them to successful completion of various levels.

The CMM comprises a set of carefully- designed norms to provide guidance to a company to effect improvements in key process areas. This set of practices touches aspects like quality, skills, schedule, cost, cycle time, productivity, consultancy, and value of processes.

4.4 Some Issues in Ranking of Academic Quality

The question of what academic quality means has often been raised, but has never been satisfactorily or comprehensively answered. Most experts agree, however, that the top-class institutions invariably possess several common features. These include high-quality faculty; excellent physical facility such as laboratories; adequate resources to maintain the operation; curriculum with variety and depth of courses; adequate number and mix of students, to enable students to learn from one another and maintain individualized learning; etc. The meaning of academic quality can also be distilled from less quantifiable attributes such as "morale", "clarity of purpose", etc.

There are implicit and cyclic relationship among institutions, faculty, students and their careers. Good faculty are attracted to good institutions and by good students, who respond to good reputations, which are based upon good faculty.

Whatever the deficiencies of ranking systems, decisions regarding the relative quality of different institutions are being made every year and will continue to be made. A college education, in all countries, whether, DCs or LDCs, is a passport to financial, social, and intellectual success, and what with mushrooming of institutions, it is necessary for the public to have some guidance in selecting institution that makes their purse and aspirations. In common with other aspects of American life, higher education has become "a game of brand names" in U.S.; and more often than not, reputations are based on an aggregate of hard- to - measure subjective impressions. Not withstanding the uncertainty and difficulties, it is generally felt that academic reputations mirror academic quality.

It has been observed that changes in prestige rankings occur slowly and gradually over time. It takes time to build reputations, but once gained they tend to be self-perpetuating.

I once again wish all the Graduands very successful professional and personal careers.

Jai Hind!



Dr. Bansidhar Panda Chairman, Board of Governors



Dr. Sunil Kumar Sarangi Director

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45. Registrar	-Member Secretary



DIRECTOR'S REPORT

Professor R. Natarajan, Chairman, All India Council of Technical Education, Dr. Bansidhar Panda, Chairman, Board of Governors, Members of the Board of Governors, Members of the Senate, Distinguished Guests, Colleagues, Degree recipients, Students and Staff of this Institute, Media persons, Ladies and Gentlemen.

Let me start my address by dedicating it to the memory of Late Prof. Bhubaneswar Behera whose vision and hard work has given all of us the opportunity to be here today. Prof. Behera was the Founder Principal of the REC. More than that, he took personal care of every student and every employee of this Institute. On this solemn occasion we pay our respects to his loving memory and promise that we shall strive to stand up to his expectations.

The first convocation is a landmark event in the history of the Institute starting with its creation as the Regional Engineering College (R. E. C) in the year 1961 as a joint venture of the Government of India and Government of Orissa. As a part of the initiative of the Government of India to further the state of technical education, the college has been catapulted to a new height as the National Institute of Technology with deemed to be University status in June

2002. Before highlighting the overall activities of the institute in general and that in the last one year in particular, it is my proud privilege and honour to welcome you all to this *First Annual Convocation* of the National Institute of Technology, Rourkela.

We are proud and feel honoured to have amongst us Prof. R. Natarajan, Chairman of the All India Council of Technical Education. Prof. Natarajan is an eminent scientist and engineer who has made substantial contribution to the field of thermal engineering and to technical education The engineering education community admires the visible contribution he is making towards streamlining education network in the country.

The institute has made significant studies under the stewardship of Dr. B. Panda, the first Chairman of the Board of Governors. Dr. Panda is a visionary and has played a valuable role in the industrial resurgence of Orissa for four decades. We envision that the Institute will achieve greater heights of glory with the association of such an eminent personality.

The Institute: A Macro View

On June 26, 2002, by an order of the Ministry of HRD, the former REC, Rourkela was converted to a new Institute called the National Institute of Technology. Behind this order, there was the vision of the Hon'ble Minister of HRD, Prof. Murali Manohar Joshi, to raise undergraduate engineering education in India to international standards. In the last one year, the Institute has seen radical changes in both academic as well as administrative fronts. After the former REC was declared NIT, Prof. G. K. Roy, Professor of Chemical Engineering, served as the Director of the Institute till the Ministry of Human Resource Development (MHRD) appointed Prof. Sunil Kr Sarangi, Professor of Cryogenic Engineering, IIT Kharagpur, as the new director who assumed office on 7th May 2003. In the fall semester 2002, the Institute adopted the academic pattern of IITs and the entire academic system was overhauled to stand up to the demands of a National Institute. The curricula have been updated keeping in view the changing

scenario in technology front. This could be possible due to the persistent efforts of the faculty, in particular the Dean of Academic Affairs, and the whole hearted support of the entire staff and student community. In order to create opportunities and avenues for research a new programme called M. Tech. by research was introduced for the first time. We are awaiting the approval of the Ministry to award of scholarships to students for pursuing Ph.D. and M.Tech by research. I am sure that Ministry of HRD will soon appreciate the need for creative thinking in engineering education and permit us to translate the dreams of the Hon'ble Minister of HRD to reality. A new M. Tech programme on Biochemical Engineering and Biotechnology was approved by the REC Board and will soon be offered by the Department of Chemical Engineering. The self-financed M. Tech. course on Telematics has been converted to a regular one. Research activities and the research environment have been refreshed by strengthening the Ph. D programs of the departments. The Board has created teaching assistantships for doctoral students, while awaiting introduction of formal research scholarships. Faculty members who were recruited earlier without Ph.D. degrees have been encouraged to join the doctoral programmes.

The first senate of the Institute has been formed and has been convened regularly to address to various academic issues of the Institute. The whole administrative set up has been revamped with the underlying notion of sharing of responsibility. The duties and responsibilities of the Heads of various departments and offices have been redefined to make them agile. A sense of greater academic freedom has been instilled among the faculty members to promote academic and the extracurricular activities. The working environment of departments and offices have been reshaped with a view to evolve a transparent and efficient administrative set up. A new administrative cell has been created to foster Sponsored Research, Industrial Consultancy and Continuing Education. The SRICCE cell operates under the direct supervision of the Dean, (SRICCE), a new administrative post created by the Board. Another position of Dean (Administration) has also been created to enhance the efficacy of the administrative set up.

Each office has been provided with adequate computing and printing facilities to carry out the work in a befitting manner.

The faculty members of the Institute have received various research grants supported by MHRD, DAE, DST, ISRO, DOE, KVIC etc. to carry out research work in this Institute. DST grant to the tune of 2 crore has been received by the Institute under FIST scheme for development of the Infrastructure of the departments. PCs with Internet connectivity have been provided at the desks of all the faculty members of the Institute to give them new capabilities in teaching and research work. The computational requirement of the departments is met by providing PCs to the Laboratories.

The Institute is connected to the rest of the world through a 2Mbps-dedicated line, which operates round the clock. Internet facility has been extended to students, staff and faculty members of the Institute. Increase in the bandwidth of the Internet connection to a capacity of 4Mbps is on the anvil. The academic area, halls of residence and a limited portion of the residential area will be connected by a backbone high speed optical fiber network and this work is in progress and expected to be completed soon. Different halls of residence will be provided with thin clients to access the servers of the academic departments to meet the academic demands of the students. Each of the halls of residences will be provided with 30 thin clients with Embedded Windows XP operating systems connected to highspeed fiber optic Local Area Network (LAN) of the Institute. An amount of approximately 1.9 crore will be spent towards achieving this LAN connectivity. The server infrastructure will consist of 15 servers each with multiple Intel Xeon processors, Storage Across Network (SAN) and Network Attached Storage (NAS), one Tera Byte of Fiber channel storage, Ultrium tape drive of 4 Tera Byte capacity. This will be accomplished at a cost of around 1.00 crore. This will provide centralize storage and high end computing infrastructure to the students and faculty members. Besides, 100 thin clients will be housed in the Computer Centre of Institute for providing computing facilities to students round the clock. The Institute has also procured Microsoft Site License for MS Windows XP desktop operating system, MS office XP and MS Visual

Studio. The intra communication system of the whole institute has been improved by providing telephones to all the faculty members, different laboratories, and halls of residence. The process of further strengthening the system has already been initiated. This encompasses the provision of extending the telephone facility to the residence of the faculty, staff and adequate number of phones in the halls of residence from the newly acquired 1200 line telephone exchange with dial inward dialing facility.

Regular seminars and academic presentations constitute the backbone of any University education. All the departments are now equipped with audio-visual devices such as LCD and OVERHEAD projectors. Besides, each department has now been provided with digital Xerox machines for the smooth functioning of the departments. The Government has been kind to provide decent operating and equipment grants to all the departments to enhance the laboratory facilities with up to date equipment.

An attempt has been made to make the Library modern and well equipped. Recent and New Books, both for teaching and research purpose, have been added to the Library. Recent and back volumes of reputed Journals and Proceedings of Conferences are made available to the students and staff of the Institute through a grant given by Ministry of HRD. We have acquired the Libsys software for library automation. The bar coded system with optical device will be very soon introduced to maintain transactions and the status of the books and Journals of the Library.

Attempt has also been made to re-organise the departments. The department of Applied Mechanics and Hydraulics has been catering to teaching of basic Mechanics courses that are common to Civil and Mechanical Engineering. Keeping in tune with the national trend, we have merged the department with the Department of Civil and Mechanical Engineering. A restructuring of the Central Workshop, albeit in a different style, is in progress.

Our campus is spread over 262 hectors of land with a boundary wall on three sides and the hills on the fourth. There are four gates connecting the campus to the outside. In order to maintain a healthy and safe campus atmosphere, the security mechanism has been devised in a new frame work and has been handed over to an outside reputed security agency. This has instilled a sense a security among the campus inmates and the among the students. We have also improved the sanitation system and landscape of the Institute by outsourcing the services.

A new gate, designed by a well-known architect of Bhubaneswar to suit to the Institute, has been constructed in the South-West side of the campus. The academic area has been beautified by the new lawns and Gardens maintained on contract under the direct supervision of a Professor In-Charge. We are working towards improvement of the electricity distribution and the lighting system. We are also in the process of renovating the Institute guest house so that we can have continuous interaction with other Institutions.

The modalities of the hall management have been reframed to suit to the growing demands of the boarders. The system works through a well coordinate hierarchy of faculty members blended with free hand to superintendents to take decisions to meet the needs. In the process, students and faculty members have shouldered a greater responsibility. The dining halls and kitchens are being renovated to maintain requisite sanitary condition.

Academic Programmes:

The Institute offers B. Tech. courses in nine different branches of Engineering such as: Ceramic Engineering, Civil Engineering, Chemical Engineering, Computer Science Engineering, Electrical Engineering, Electronics and Instrumentation Engineering, Mechanical Engineering, Metallurgical and Materials Engineering and Mining Engineering. Besides, three M. Sc. Courses in Mathematics, Physics, and Chemistry are also offered along with Master of

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Computer applications (MCA). The institute offers eleven M.Tech. programmes in different streams like, Electrical, Mechanical, Electronics and Instrumentation, Computer Science, Civil, and Metallurgical and Materials Engineering departments. M. Tech. by Research programme was introduced in the year 2003 with a view to emphasize research activities and attract bright students motivated for research work. Furthermore, the M. Tech. (Res.) regulations make provision for converting the M. Tech. (Res) programme to Ph. D. Programme and vice versa with appropriate evaluation standards. Interdisciplinary and collaborative research activities are encouraged in this new framework. Ph.D. Programmes are run by all braches of Engineering and Science disciplines. The Ph. D. regulations have been framed along the lines of those in the best institutes of our country. This includes the required dose of course work and a dissertation.

A new M. Tech. course on Biochemical Engineering and Biotechnology will be offered by the Department of Chemical Engineering from July 2004 session. The self financed M. Tech. course on Signal Processing and Telematics was offered as a regular M. Tech. Programme. Breaking with tradition, both B. Tech and M. Tech. courses are being run in the Lecture, Tutorial and Practical (LTP) framework followed by all reputed Institutes. In order to provide a platform for creative research work by undergraduate students, more weightage has been assigned to the B. Tech project work. To encourage students to spend more time on projects a gold medal has been instituted for the Best B. Tech. project of the year.

The present B. Tech. intake strength is 340 and the admission is through All Indian Engineering Entrance Examination. Currently, M. Tech., M.Sc. and MCA courses accept 90, 45 and 30 students every year. We propose to seek Government approval to increase the intake at M.Tech and Ph.D. levels. The students having valid GATE score and sponsored candidates are admitted to the various M. Tech. programmes. The MCA admission is through All India test while the students for M.Sc. courses have to appear the tests and Interview of the respective departments.

It is envisioned to add a few centers of excellence to the Institute's academic scenario. Some of the early candidates are:(i) Biomedical Engineering, (ii) Business Management, (iii) Cryogenic Engineering, (iv) School of Digital Signal Processing, (v) School of VLSI design, (vi) Tribal Development and (vii) Environmental Studies.

Research and Development Activities

Research activities have been persistently carried out by various departments of the Institute despite the paucity of funds in the R. E. C. framework. The financial support for the research work has seen an upward swing during the last decade. Research activities flourished when faculty members of various departments received financial support by and large form AICTE and MHRD. During the last couple of years major grants have been sanctioned by MHRD. In the financial year of 2002-2003, the institute received sanctions of 87 lakes from MHRD, 27 lakhs from DST, 30 lakhs from DAE and 49 lakhs from DST under KVIC programme. In the financial years 2003-2004, MHRD has already sanctioned different TAPTEC and R&D projects of 98 lakhs and a few more MODROB projects are expected soon. The Department of Science and Technology (DST) has sanctioned an amount of 2 crore under FIST programme to Mechanical, Chemical, Civil and Electronics and Instrumentation Engineering departments. This grant will be utilized for modernizing the R & D equipments in different laboratories. Our departments are in the threshold of a radical change to suit to the current technological advancements.

The Department of Ceramic Engineering is engaged in research in the area of Non Oxide ceramics, Bio ceramics, Solid oxide fuel cell, Electro Ceramics (Piezo electric, dielectric and Ferrite), cement and Alumina Zarconia Ceramic. Research on utilization of polymers in the construction of durable pavement, study of flow interactions, Computer Aided Design etc. are carried out by the department of Civil Engineering. Besides, the Civil Engineering Department is carrying out projects on Prime Minister's Gramya Sarak Jojana. Fludization,

Vapour Liquid Equilibria, Environmental Engineering are the current focus of Chemical Engineering Department.

The R&D activities in the department of Computer Science encompass Petri Net modeling, Artificial Intelligence using Soft Computing Approach, Image Processing, Software Engineering, Distributed and Parallel Computing and Computer networking. The faculty members of the Department of Electrical Engineering are pursuing research on Neuro-Fuzzy approach to System Identification, Digital Signal Processing and its application to Power Electronics and Drives, Power Quality management, Digital Signal and Image Processing, Application of Evolutionary Computation to signal and Image Processing, Computer Vision, Nonlinear control systems, Chaotic systems, Microwave Engineering and Mobile computing. The research activities in the Department of Electronics and Instrumentation spans areas such as Digital Signal Processing, Channel Equalization using soft computing approach, VLSI design, Pattern Recognition, Image Processing, Biomedical Signal Processing and Power Electronics. The department along with the Department of Computer Science has completed the IMAPCT project supported by World Bank Funding. The department runs a center on VLSI Design.

The Mechanical Engineering department focuses on research areas such as Vibration, Stress Analysis, Heat Transfer, Cryogenics, Machine Tool and Manufacturing Science, Computer Aided Design, Rotor Dynamics, Robotics and Machine Vision System. The department also carries out research in collaboration with BARC, Mumbai. The Department of Metallurgical and Materials Engineering has collaborated with different Universities of UK under UK-India REC project to develop the field of Materials Engineering. The department is currently focusing on research areas such as Fracture Mechanics, Fatigue Failures, Reduction Kinetics of iron ore in solid and liquid state, Carbonizing of Agricultural equipment and implements, polymer composites, plasma coating of materials, Casting of Aluminum Silicon Alloys through Centrifugal casting, Characterization of Oxide ceramics by gel participation technique, Characterization of neutron irradiated PET fibre. The department of Mining Engineering is

engaged in research areas such as Rock Mechanics, Mine Environment, Safety Engineering and Mine Fires and Spontaneous Heating of Coal.

Recently, research on the deposition and characterization of Thin Films has been initiated by the Department of Physics. Besides, this department is engaged in research for more than two decades on Small Angle X-Ray Scattering. The department of Mathematics is carrying out on research in the fields of Fluid Mechanics, Operation Research, Category Theory, Algebraic Topology, Fuzzy Topology, Number theory, Stochastic Processes and Magneto Hydro dynamics. Studies in Coordinated compounds and Environmental Chemistry constitute the research focus of the Department of Chemistry.

The DST sponsored Khadi Village Industries Corporation (KVIC) project aims at strengthening the R&D activities of Khadi Sector and grass root research for the rural mass. The project is for a period of five years and initial steps have been taken in this regard.

Faculty members of the Institute have excelled in teaching and research activities and hence many laurels and distinction have been added to their credit. Faculty members in large numbers have presented papers in National and International Conferences in India and abroad as well. Some of our faculty members have visiting teaching assignments in India and Abroad. A few faculty members have been selected as the member of the AICTE Accreditation Committee. In the last five years 892 papers have been published in Journals and Conferences. In the year 2003, our faculty members have published 71 Journal papers and 88 papers in National and International Conferences.

Conferences, Seminars and Workshops

The Institute offers a platform to different research communities to share their new research findings and explore future possibilities by organizing periodic conferences and seminars. This brings the researchers together and enhances the visibility of our own research work.

A national seminar on "Pollution and Waste Management in Ceramic and Allied Industries" was organized by the Department of Ceramic Engineering in Feb. 2003. A series of conferences and seminars were hosted by the Department of Civil Engineering. The Department organized a mega event of National Convention on "Environmental Engineering" in February 2002. With the renewed spirit, an All India seminar on Emerging Trends in Structural mechanics and Composites" was organized by the department in November 2003. Recently, in January 2004, the department hosted the seminar on "Structural Steel for Construction Industry" and was attended by Senior Managers of industry.

The Department of Electrical Engineering organized an All India Seminar on "Application of Evolutionary Strategies to Power, Signal Processing and Control' in the month of Feb. 2002. Delegates were also benefited by the course on "High and Low Level VLSI design" conducted by the department of Electronics and Instrumentation in May 2003. The Department of Mechanical Engineering organized the National Convention on "Emerging Trends in Mechatronics for Automation" in Nov. 2002. The Department of Metallurgy and Materials Engineering hosted a one day Workshop on "Polymer Composites" under UK-India Link project on 16th march 2004.

Campus Developments

After conversion to NIT, the campus has received a new look. The Institute Gate, newly constructed at the South West side of the campus has added beauty to the campus. The security arrangement of the campus has been reshaped by outsourcing security services from a reputed national company. The cleaning services have also been outsourced from nationally acclaimed social organization. The academic area has a new look with the recently developed Lawns and Gardens.

The demand of electrical energy to the residential as well as the academic areas has grown with time. Since the existing transformers are not adequate to meet the load, procurement of new transformers are on the anvil. The communication facility has been extended to the residential areas by providing telephones to every faculty member's office and residence,

laboratories and senior supporting staff for inter campus and external communication. Internet facility will soon be extended to the residences of the faculty members through the telephone network.

A new administrative unit named Sponsored Research, Industrial Consultancy and Continuing Education (SRICCE) Cell has been created to promote the research, consultancy and continuing education of the Institute. It is expected to stimulate such activities by the faculty and students.

Student Activities

The modalities and the operation of the student activity center have been reframed to create a platform to explore the latent talents of the bright students and to provide a congenial atmosphere among the student community. Three cells such as, technical cell, cultural cell, and sports cell have been created with the underlying notion of distributed system and for the smooth functioning of the center. The technical cell looks after the activities such as seminars, invited lectures, model contest, technical quiz etc. The cell, for the first time, coordinated the National Level Student Seminar involving all the departments of the Institute in Jan 10-11, 2004. Students from different technical Institutions actively participated in the seminar and in many departments our students could find position among the top ranks. The Cultural activity cell of the student Activity Centre organized the Spring Festival in February 2004. Students form different colleges and Universities participated in the function. During 27-29 March 2004, the Sports Cell organized the Inter NIT Basketball Tournament at NIT Rourkela and our students could come with all flying feathers to win the Champion trophy.

Our students have participated in various functions organized at different Institutes and Universities in technical, Cultural and Sporting events and have won many prizes and trophies. Some of our students have represented the Institute in the Spring Festival of IIT Kharagpur during January 2004 and have won top prizes in best events. Our students also participated in Spring festivals of IIT Bombay, IIT Roorke and MNIT Allhabad. In January 2004, our

students have taken part in the Technical Festival organized at IIT, Bombay and won prizes. In the year 2003, students of this Institute won the Championship and Runners-up Trophies in Basket Ball and Table Tennis respectively in the Inter NIT sports meet held at VNIT, Nagpur. In the same year, our Institute won the Championship Trophy in the All India Inter Engineering Cricket meet at BIT, Meshra. In Oct. 2003, our students participated in the Inter University Football meet at Viswavarati University, Shantiniketan' and have the Runners-up Trophy. Recently, in Feb. 2004, two silver medals for high jump and triple jump have been earned by our students in the Inter NIT sports and Games meet held at NIT Warangal. This amply demonstrates the potentiality of our students in different extracurricular activities. I congratulate all our students for such achievements and wish many more trophies to be added during the years to come.

<u>Alumni</u>

The alumni are the brand ambassadors of any Institute. Our alumni, fifteen thousand strong, have earned laurels for themselves and for their alma mater. Mr. Nalini Ranjan Mohanty of the First batch, currently a member of our Board of Governors, has been awarded the coveted Padmashree by the President of India on Republic Day this year for his contribution to the development of indigenous capability in manufacture of military and civil aircrafts. Dr.Surya N. Mohapatra, an electrical engineering graduate of the 1971 batch has been appointed as the President of Quest Diagnostics, USA, a Fortune – 500 companies. I congratulate Shri Mohanty and Dr.Mohapatra and many more of our bright alumni who are excelling in their professions around the world.

Graduates of the Year

After a couple of minutes, I will have the pleasure of conferring the degree to 344 B. Tech, 51 M.Tech, 28 Msc, 32 MCA and 02 Ph.D. students. I will be happy to announce the recipients of 25 different medals and awards for excellence in various disciplines. I personally

congratulate the two Institute Gold Medalists: Miss Debapriya Sarakar, the Best Graduate of the Institute, Miss Suman Kumari, the Best Post Graduate of the Institute. I congratulate Sri Sandip Raj Sharma a graduate in Electrical Engineering Branch, who has been conferred the Prof. Bhubaneswar Behera Gold Medall as the best all rounder of 2003 batch. The students graduating this year stand on the threshold of globalization in all aspects of technological advancement. They play a significant role in the industrial scenario of not only of our Nation but those of other countries as well. They have to perform a multitude of tasks at their workplaces and will meet the challenge of developing Indigenous technologies where they have an active role to play in the nation building process and make our country occupy its rightful place in the global technology scenario. The technical training that they have received in this Institute will no doubt instill a sense of confidence in all of them.

I believe in the philosophy Karma. If we do something well, with total dedication and sincerity, it is certain. We should always be focused on our objectives. Our goals should always be very clear, and come what may, we ought to believe that there is no replacement to hard work. Befitting to the spirit of this occasion, let us all emulate the immortal lines of Robert Frost

The woods are lovely, dark, and deep,
But I have promises to keep,
And miles to go before I sleep,
And miles to go before I sleep,

JAI HIND

MEDALS AND AWARDS

INSTITUTE GOLD MEDALS

BEST POST GRADUATE (M.TECH)



Suman Kumari
Department of Civil Engineering

BEST GRADUATE (B.TECH)



Debapriya SarkarDepartment of Electrical Engineering

PROF. BHUBANESWAR BEHERA GOLD MEDAL-BEST ALL-ROUNDER OF OUTGOING BATCH OF B.TECH



Sandip Raj Sharma

Department of Electrical Engineering

INSTITUTE SILVER MEDALS

1. GRADUATE COURSES (B.TECH)

Ceramic Engineering : Ritesh Shukla

Chemical Engineering : Bikash Sahoo

Civil Engineering : Jyoti Ranjan Maharana

Computer Science & Engineering : Srihari Prasad Ram

Electrical Engineering : Debapriya Sarkar

Electronics & Instrumentation Engineering : Pooja Lath

Mechanical Engineering : Malaya Ranjan Satapathy

Metallurgical & Materials Engineering : Lakshmi Narayan Rath

Mining Engineering : Deeptendu Samanta

2. POST GRADUATE COURSES

A. M.C.A. : Sukanya Sen

B. <u>M.Sc.</u>

Physics : Subhajit Waugh

Chemistry : Anuradha Singhal

Mathematics : Jyotsna Rani Patnaik

ENDOWMENT MEDALS AND AWARDS

1. ISTAM Medal

- Best Graduate of the Institute : Debapriya Sarkar

2. Saurav Ranjan Kar Memorial Medal

- Best Graduate of the Institute : Debapriya Sarkar

3. Sugat Kishore Mall Memorial Medal

- Best Graduate of Electrical Engineering : Debapriya Sarkar

4. Pranab Memorial Medal

- Best Graduate of Mechanical Engineering : Malaya Ranjan Satapathy

5. Metallurgical Engineering Association Medal

- Best Graduate of Metallurgical and : Lakshmi Narayan Rath

Materials Engineering

6. Institution of Engineers (India) Medal

- Best Graduate of Mining Engineering : Deeptendu Samanta

7. Institution of Engineers (India) Award

- Best Graduate of Chemical Engineering : Bikash Sahoo

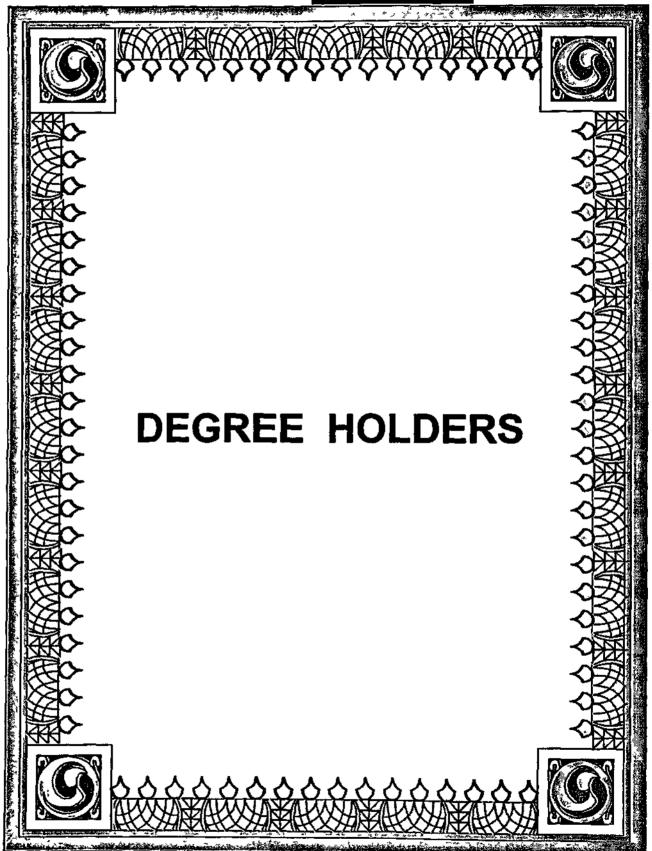
6. Institution of Engineers (India) Award

- Best Graduate of the Institute : Debapriya Sarkar

other than Chemical Engineering

9. Prof. Raja Raman Award

- Best Graduate of Computer Science and Engineering : Srihari Prasad Ram



DOCTOR OF PHILOSOPHY (Ph.D.)

Department & SI. Candidate's Name No.

Title of the Thesis

1. **CIVIL ENGINEERING**

Awadhesh Kumar

19/02/84 Parameters on the Performance of

Effect of Promoter and Distributor

Gas - Solid Fluidized Beds.

2. **ELECTRONICS & INSTRUMENTATION ENGINEERING**

Debi Prasad Das

22102/04 Active Noise Control Using DSP

and Soft Computing Techniques.

MASTER OF TECHNOLOGY

CHEMICAL ENGINEERING

ELECTRICAL ENGINEERING

(COAL CHEMICALS & FERTILIZERS)

(ELECTRONIC SYSTEMS & COMMUNICATION)

Dipa Das

Ranjan Kumar Dwari

Arun Kumar Jena

Swapnajít Patnaik

Sujit Kumar Pradhan

Satyasis Mishra

Debjit Ghatak

Gautam Sahu

CIVIL ENGINEERING

(STRUCTURAL ENGINEERING)

Kulamani Behera

Namita Nanda

Nallamothu Srinivas

Manoj Kumar Rath

Asit Kumar Panda

Suman Kumari

MECHANICAL ENGINEERING

(PRODUCTION ENGINEERING)

R.R.N.K. Srinivas Eluripati

Suvendu Prasad Sahu

Srinivasarao Kamineni

Kishore Bandarupalli

Sushanta Kumar Panda

Deepak Kumar Nath

Biswajit Routray

Mallavarapu Suresh

Prafulla Chandra Swain

Prasanta Kumar Swain

Ramakanta Beuria

Reena Ray

Prakash Chandra Sarangi

Nayak Himanshu Sekhar Ray

Manoj Kumar Pradhan

Bhupal Chandra Patel

Susanta Kumar Das

(SOIL MECHANICS AND FOUNDATION ENGINEERING)

Ranjan Kumar Naik

Bhabagrahi Dash

Bichitrananda Samal

Simanchal Panda

Kiran Kumar Subudhy

METALLURGICAL & MATERIALS ENGG, INDUSTRIAL METALLURGY

Prabhat Kumar Mishra

COMPUTER SCIENCE ENGINEERING (COMPUTER SCIENCE)

Niyati Kumari Behera

Ajay Kumar

Bibhaba Ray

Saroj Kumar Panda

Satyajit Kanungo

Rupashree Prusty

Mitra Binda Ray

Vanapalli Mahesh Babu

Susanta Kumar Satapathy

Sukanta Kumar Panigrahi

Flora Nanda

Sanjit Kumar Barik

Bijoyananda Mishra

Bhabani Shankar Dash

Polaki Santosh Kumar

MASTER OF COMPUTER APPLICATIONS

FIRST CLASS

Sukanya Sen

Nitika Mrinal

Ujjal Sahana

Saurav Kumar Behera

Kaushal Kishore Bharati

Chudamani Pradhan

Padma Charan Bisoi

Alok Ranjan

Archana Sahoo

Namrata Baid

Chittaranjan Swain

Neeraj Tiwary

Sarmistha Bhuyan

Pratap Kumar Mallick

Rakesh Tiwari

Manas Padhiary

Prashanta Kumar Rout

Prasanta De

Raveendra Kumar Routhu

Krushna Chandra Sahoo

Shrabana Kumar Behera

Vivek Prakash

Snehasis Mishra

Basanta Kumar Gupta

G. Venu Gopal

Mahesh Kumar Pradhan

Prabodh Kumar Jana

Uday Shanker

Ch. V. Raja Sekhar

Satyendra Kumar

SECOND CLASS

Virendra Singh

PASS

Rohit Kumar Gupta

MASTER OF SCIENCE

PHYSICS

CHEMISTRY

FIRST CLASS

FIRST CLASS

Subhajit Waugh

Santosh Kumar Sahu

Ishita Ghosh

T. Rashita

Rajib Padhee

Ela Sinha

Dinabandhu Senapati

Punyasloka Pattanayak

Tushar Ranjan Das

Pragnyashree Aishwaryamayee Pradhan

Pradeep Kumar Palei

Anuradha Singhal

Nadiya Bihary Nayak

Tapas Kumar Mandal

Rati Kanta Bera

Susanta Kumar Swain

Nibedita Panda

Amar Kumar Sinha

Amar Kumar Das

Rabindra Nath Barik

Ambika Prasad Tripathy

MATHEMATICS

FIRST CLASS

Jyotsna Rani Pattnaik Gaurango Chandra Mishra Nirmalya Kumar Mohanty

SECOND CLASS

Mousumi Ghosh

Anuprava Naik

Samrat Mohapatra

Novaleena Nayak

BACHELOR OF TECHNOLOGY

CERAMIC ENGINEERING

CHEMICAL ENGINEERING

FIRST CLASS WITH HONOURS

Ritesh Shukla

Leeta Behera

Nivedita Patri

FIRST CLASS

Pradeep Kumar Kaushal

Alok Kumar Sahu

Himanshu Bhatta

Pradip Kumar Roy

Sorag Kabat

P. Kameshwar

Pankaj Gupta

Prashant Kumar Sahu

Abhiram Patnaik

Gagandeep Singh

SECOND CLASS

Prasanta Kumar Rout

Sachin Katare

Lalit Kumar Narnaware

FIRST CLASS WITH HONOURS

Bikash Sahoo

Dipayan Chakraborty

Ranjan Kumar Sahoo

Ravi Singhal

Shilpa Agrawal

Deepak Ranjan Mahapatra

Alok Tripathy

Tarun Kumar Rathore

Hemant More

FIRST CLASS

Imran Ali Khan

Manas Ranjan Sahu

Rohit Sharma

Arati Kumari Panda

Shailesh Agrawal

Tarandeep Singh

Rohit Kumar Singh

Sandeep Puranik

Billapati Kishore

Samarth Khare

Guru Padarabinda Mohapatra

S. Unnikrishnan

Laxmikant Das

CIVIL ENGINEERING

S. Ranjith Kumar

Biswajit Jena

Pankaj Omar

Debasis Mohanty

Vivek Bhataiya

K. Suprabha

Naresh Pachauri

Vinay Azad

Nikhil Mahapatra

FIRST CLASS WITH HONOURS

Jyoti Ranjan Moharana

Suresh Ranjan Dash

Subhanan Chanda

Srimanta Prasad Khamari

SECOND CLASS

Mahendra Singh

Biswavivas Patnaik

Prateek Sukla

Sudha Dharitri Lenka

Yogesh Sharma

Ravi Singh

Birendra Barla

Prabhakar Singh Prabhat

Sucheta Nayak

Biju Mon A.

Malik Mohd. Samiuddin Shafiuddin

Lipipuspa Majhi

PASS

Manjunath B.A.

FIRST CLASS

Bhaskar Poddar

Samikhya Deo

Sidhartha Ray

Randeep Basu

Biswaranjan Senapati

Sumantra Bagchi

Roshan Shakya

Manasi Sahu

Nibedita Pani

Manoj Kumar Behera

G. Shivashankar

Soubhagya Ranjan Senapati

Aruna Ekka

Abhijit Pal

Sucharita M. Reddy

Pharmendra Kumar Singh

Sushree Sarita Sarangi

Ajay Kumar Saroj

Sreesha E. K.

Mullapudi Phani Rakesh

Bishal Das

Sudhanshu Sekhar Pati

Suvra Bisi

V. Parthasarathi

SECOND CLASS

Manoj Kumar Baraik

COMPUTER SCIENCE & ENGINEERING

FIRST CLASS WITH HONOURS

Srihari Prasad Ram

Debasish Jena

Satyajit Nath

Chandan Dutta

T. Yudhistir Reddy

Swatishree Das

FIRST CLASS

Sanjeeb Kumar Satapathy

Prateek Shadangi

Saikat Chatterjee

Patil Triveni Vijaysinh

Debasish Sahoo

Puneet Kapahi

Sarmistha Mishra

Sanata Kumar Navak

Sudhansu Sekhar Roy

Sigma Mohanty

Ashish Regmi

ELECTRICAL ENGINEERING

Sameepa Behera

Abhishek Pradhan

Natasha Garg

K. S. Niranjan

Ningombam John

Subhrat Mahajan

Reneesh Bhaskaran

Vinay Mandal

Gaurav Kumar Garg

Narra Girish Nathaniel

Pratap Chandra Mishra

Ashish Saraswat

Sabuj Kumar Jena

SECOND CLASS

D. Satya Gedam

Choudhari Mahesh Vithalrao

Nikhilesh Kamble

Balagurubaran K.

FIRST CLASS WITH HONOURS

Debapriya Sarkar

Sulipta Tripathy

Garima Bhalotia

Manas Kumar Rout

Sanjeev Panigrahi

Ranjit Kumar Behera

Madhumita Dey

Saurav Mohapatro

Jayaram Mahala

Sauray Snehvrat

Majety Gopal Krishna

Ravi Sankar S. S.

Kunal Mahapatra

Debi Prasann Dash

Bir Kariya Sikri Hansdah

S. Gurunarayanan

FIRST CLASS

Sved Azadar Husain

Amita Patnaik

Sandip Panigrahi

Santosh Kumar Pujahari

Bijayalaxmi Muduli

Debasmita Pradhan

Subhendu Pattnaik

Bindiya Bhoi

Samir Kumar Samal

Debajyoti Dash

Jaisish Mohanty

Malaya Saurava Dash

Vinay Gopal

Sunayana Kar

Dipali Pattnaik

S. Arvind

Amit Kumar Pattnaik

Suranjan Roy

Sanchita Biswas

Saroj Kumar Pradhan

Aswini Kumar Bhoi

Bakshi Venkata Ranga Rao

Subrat Kumar Behera

Sandip Raj Sharma

Vaswati Chakraborty

Sri Krishna Murthy N.V.

Devi Prasad Sahu

Kotamraju Vinay

Sunil Kumar

Lakshma Reddy Kandimalla

Gaurav Thakur

Roy Shantanu Subrat

Sreejana Sharma

Ajitesh Kumar

Nitin D. Patel

Madhusudan Mishra

Prateek Mohanty

Das Debranjan Raghunath

Abhijith P. Merve

Gaulikar Abhijeet Pyarelal

Bidyabati Sethi

Gaurab Kumar Sarangi

N. Chaitanya

SECOND CLASS

Prabhabati Raika

Tilak Singh

Mohit Sharma

Monalisa Mallik

R. Kathanguang

Ajit Kumar Majhi

Ravindra Kumar

Himanshu Sharma

PASS

Santosh Kumar Bhartiya

ELECTRONICS &

INSTRUMENTATION ENGINEERING

Jagadish Lekhak

FIRST CLASS WITH HONOURS Parveza Rahman

Pooja Lath Pankaj Kumar

Ananya Mishra Ashish Goel

Prasant Kumar Dash Salil Kumar Naik

Om Prakash Ray Choudhury Soumendu De

P. Bimala Devi

Soumya Ranjan Mishra Kunal Madhukar V. K. Jaiswal

Manas Ranjan Kar Shantanu Kumar Meher

Chitralekha Das Kanai Lal Kar

Priya Ranjan Nanda Kush Kumar Choudhary

Monalisa Misra Birajdar Amol Baswaraj

Sovan Kumar Sahu S. Shanmuga Sundaram

SECOND CLASS

FIRST CLASS

Leichombam Victor Singh

Nishant Sangal Vivek Sori

Sandip Kumar Agarwalla Pinaki Sarkar

Pendli Jeevan Reddy Amit Kumar Choudhary

Suvrat Budhlakoti Phani Rajesh Mullapudi

Anjani Kumar Sharma Sudhaker Gosai

Vikas Thakur Kh. Robi Devi

MECHANICAL ENGINEERING

FIRST CLASS WITH HONOURS

Malaya Ranjan Satapathy

, Satya Ranjan Mahapatra

Rakesh Kumar

Nivedita Samal

Manoj Kumar Sahoo

Ajay Kumar Agrawal

Rashmi Shankar Prasad

Milton Ghosh

Santosh Kumar

Sabita Tripathy

Manideepa Chatterjee

Biswamuqdha Sama!

Santosh Kumar Padhi

Smiti Sahu

Deepak Dixit

Uttam Palui

FIRST CLASS

Arobinda Satyaranjan Tripathy

Rizuwana Parween

Bibhuti Giri

Rajan Gupta

Mohamed Kibriya Kauser

Abbasani Pramod Reddy

Sudipty Patra

Privatosh Pradhan

Santosh Jena

Enumula Singaiah

Abinash Kumar Das

Shakti Prakash Samal

Subrata Ghosh

Shashwat Mishra

Neeraj Prakash

Souray Mohanty

Laxmidhar Sutar

Vikas Dube

Dipti Rani Tripathy

Santoshi Rath

Pallav Goswami

Ajay Singh

Atma Prakash Ojha

Sudhansu Sekhar Senapati

Amiya Ratan Pradhan

Laxmikanta Chaini

Bikas Kumar Panigrahi

Deepum Kapil

Hegde Kailash

Barun Panda

Mukul Badonia

Vivek Sharma

S. Kumar Boddeda

Mrinal Talukdar

Samir Kumar Sukla

Abhijit Gokhale

Somesh Samantaray

Lily Sethi

T. Saravanan

Piyush Garg

Simple Kumar Jain

Ansar Ahmad

Jitendra Prasad Roul

Dhrubasish

Chakraborty

Jyotirmayee Raj

Sandeep Kumar

Behera

Mukesh Kumar

Gupta

K. Karthikeyan

Gopabandhu Dora

Rohit Prakash

S. Pratap Jayakaran

Ajit Kumar Minz

SECOND CLASS

Binto P.A.

Rajkishore Singh

Rohit Gajanan

Gathibande

Sougato Das

Choppra Maruthi

Prasad

PASS

K. Ezhil Amudhan

METALLURGICAL AND MATERIALS ENGINEERING

FIRST CLASS WITH HONOURS

Lakshmi Narayan Rath

Amitav Pradhan

Asim Amitay Jena

Sandeep Sahoo

Surject Singh

FIRST CLASS

Ram Naresh Lal

Tejaswini Nilamani

Sibasish Patnaik

Raj Udayan Ray

Daitari Kamila

Manoj Kumar Bari

Raja Tripathy

Sunayan Thakur

Vineet Kumar

Prithviraj Mishra

Souvik Basu

Tanmaya Biswal

Manwendra Kumar Tripathi

Sen Amitava Dhrubadas

MINING_ENGINEERING

Abhimanyu Sahoo

FIRST CLASS WITH HONOURS

K. Sivaraman

Shaleen Silori

Deeptendu Samanta

Ranjan Kumar Sahoo

G. Krishna Kumar

Sanjay Kumar Gupta

Bibbuti Bhusan Dhar

Ribnuti Brusan Dhai

Sandeep Choudhury

Mrunmaya Kumar Pasupalak

Lakshya Jyoti Deka

Rama Shankar Lal

Karmveer Pratap Singh

B. Shashank Dutt

Navin Tamrakar

Rishi Dhiman

FIRST CLASS

Sanjay Kumar Kandi

J. Aravind

Umar Wasim Raza Ali

SECOND CLASS

Rajesh Mahawar

SECOND CLASS

Niranjan Kumar Sha

Sambit Pattanaik

Dharamjeet Ramchandra Prasad

PASS

Navin Kumar

ORGANISING COMMITTEE, CONVOCATION - 2003

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Prof. G.S. Rath	Dean (P.D.)	Member
Prof. R.C. Behera	Dean (A.A.) & Dean (SRICCE)	Member
Prof. A.K. Sahoo	Dean (S.A.)	Member
Prof. B.K. Rath	Member, BOG	Member
Prof. B. Pradhan	Member, BOG	Member
Prof. S.B. Prusti	Prof., Electrical Engg.	Member
Prof. P.K. Nanda	Prof., Electrical Engg.	Member
Prof. K.C. Biswal	Prof., Chemical Engg.	Member
Prof. S. Adak	Head, Ceramic Engg.	Member
Shri J.P. Padhy (till 31.3.2004)	Registrar, In-charge	Convenor
Shri S. K. Upadhyay (from 01.04.2004)	Registrar	

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Prof. G.K. Roy	Chairman
Prof. S.B. Prusti	Member
Prof. P.K. Nanda	Member
Prof. K.C. Biswal	Member
Prof. S. Adak	Convenor

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Prof. P.K. Roy Member
Prof. A. Kumar (Civil) Member
Mrs. S. Mohanty Member

-Publication

Prof. P.K. Nanda Chairman
Prof. B.C. Meikap Member
Prof. D. P. Tripathy Member
Prof. B. Majhi Member
Prof. T. K. Sen Member
Prof. Anup K. Panda Member

Reception and Hospitality

Prof. S.B. Prusti Chairman
Prof. K.R. Patel Member
Prof. S.P. Singh Member
Prof. S.K. Patel Member
Prof. A. Kumar (Math.) Member
Mrs. S. Patnaik Member

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Prof. K.C. Biswal
Prof. S.K. Patra
Prof. S.S. Mohapatra
Prof. S.C. Mishra
Member
Prof. S.C. Mishra
Member
Dr. R.K. Patel
Member
Dr. D.K. Bisoyi
Member

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Prof. A.K. Behera Member
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REGIONAL ENGINEERING COLLEGE, ROURKELA

SUCCESSIVE LIST OF CHAIRMAN, BOARD OF GOVERNORS

SI.No.	Name	Pe	rìod
		From	То
1.	Shri Biju Patnaik Chief Minister, Orissa	15.08.61	19.12.63
2.	Shri Biju Patnaik Chairman, Planning Board, Orissa	20.12.63	28.03.65
3.	Shri Sadasiv Tripathy Chief Minister, Orissa	14.04.65	07.03.67
4.	Dr. Haribandhu Mohanty Technical Adviser to Govt. of Orissa	07.10.67	06.10.73
5.	Shri K. T. Satarwala Adviser to Governor of Orissa	07.10.73	03.05.74
6.	Shri Kanhucharan Lenka Minister of Industries, Planning & Coordination, Orissa	04.05.74	16.02.76
7.	Shri Kanhucharan Lenka Minister of Industries, Orissa	14.01.77	30.04.77
8.	Shri Harish Chandra Buxipatra Minister of Industries, Mining, Geology & Rural Development, Orissa	06.07.77	18,02.80
9.	Shri Kishore Chandra Patel Minister of State for Industries, Oris ^{5a}	12.08.80	08.03.85
10.	Shri S. B. Mishra, IAS Commissioner-cum-Secretary, Industry Department, Government of Orissa	06.06.85	03.01.86
11.	Shri Jadunath Das Mohapatra Minister of Education & Youth Services, Orissa	04.01.86	29.10.86
12.	Shri Niranjan Patnaik Minister of Industries, Science, Technology & Environment, Government of Orissa	30.10.86	16.11.89
13.	Shri S. B. Mishra, IAS Secretary, Industries Department, Government of Orissa	17.11.89	12.08.90
14.	Shri Dilip Ray Minister of Industries, Government of Orissa	13.08.90	03.05.96

15.	Shri Niranjan Patnaik Minister of Industries, Government of Orissa	04.05.96	22.07.1999
16.	Dr. Giridhar Gomang Chief Minister, Government of Orissa	23.07.99	10.03.2000
17.	Shri Kanak Vardhan Singh Deo Minister of Industries, Government of Orissa	11.03.2000	25.06.2002

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SUCCESSIVE LIST OF CHAIRMAN, BOARD OF GOVERNORS

SI.	Name	Period	
No.		From	То
01.	Shri Kanak Vardhan Singh Deo Minister of Industries & Public Enterprise	26.06.2002	01.09.2002
02.	Dr. Bansidhar Panda Chairman & Managing Director IMFA Group of Industries, Bomikhal, Bhubaneswar - 751010	02.09.2002	Continuing

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SUCCESSIVE LIST OF PRINCIPALS

SI.	Name	Per	Period	
Nos.		From	То	
1.	Sri B. Mishra	15.08.1961	11.02.1962	
2.	Prof. B. Behera	12.02.1962	12.02.1963	
3.	Prof. P. Achutham	12.09.1963	11.03.1964	
4.	Prof. B. Behera	12.03.1964	31.08.1970	
5.	Prof. H.S. Nagabhushanaiah	01.09.1970	01.01.1971	
6.	Prof.B. Behera	01.01,1971	19.07.1971	
7.	Prof. H. S. Nagabhushanaiah	19.07.1971	30.08.1973	
8.	Prof. R. Mishra	31.08.1972	30.08.1973	
9.	Prof. H. S. Nagabhushanaiah	31.08.1973	16.10.1974	
10.	Prof. Somnath Mishra	17.10.1974	29.06.1990	
11,	Prof. P. K. Mohapatra	30.06.1990	29.08.1990	
12.	Prof. Somnath Mishra	30.08.1990	30.10.1994	
13.	Prof. A. K. Mohanty	31.10.1994	05.02.1995	
14.	Prof. Somnath Mishra	06.02.1995	31.01.1996	
15.	Prof. A. K. Mohanty	01.02.1996	30.09.2001	
16.	Prof. G. K. Roy	01.10.2001	25.06.2002	

NATIONAL INSTITUTE OF TECHNOLOGY

SUCCESSIVE LIST OF DIRECTORS

SI.	il. Name Period		od
Nos.		From	То
1.	Prof. G. K. Roy (officiating)	26.06.2002	06.05.2003
2.	Prof. Sunil Kumar Sarangi	07.05.2003	Continuing

