



PLACEMENT
BROCHURE-2008

NATIONAL INSTITUTE
OF TECHNOLOGY
RAIPUR

OUR VISION:

“An academic centre par excellence, fulfilling the needs, aspiration and expectations of society through technological innovations and cultural development in unison with global trends.....”

Placement Brochure 2008

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National
Institute Of
Technology
Raipur

MESSAGE FROM THE DESK

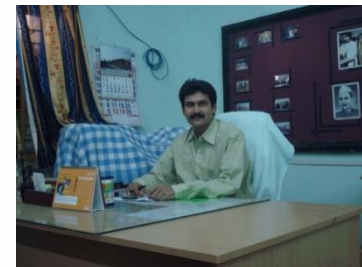
“Industry and Institute collaboration help in accentuating the performance levels of both organizations & hold within their realm the enormous possibilities of extensive human progress.” This statement by Friedrich Terman, former Vice-President of Stanford University, aptly emphasizes the importance of industry-institute mutual partnerships. It was this prolific vision of Mr. Terman which culminated in the form of the Silicon Valley of US. NIT Raipur has a glorious history of promoting such industry-institute interaction and fostering talent since its inception in 1956 & here in, I wish to invite you to be a part of this tradition of excellence by undertaking a placement visit to our Institute. NIT Raipur, established as one of the earliest engineering colleges of independent India, has continuously strived to achieve higher paradigms of achievement and excellence & in the process has carved a niche for itself on the national & global level. On account of its regular & meticulous examination procedure, academic atmosphere, regular extra-curricular activities and qualified & committed faculty members, the institute ensures that the holistic development of students takes place. The distinguished alumni of the institute have contributed significantly to various fields such as industry, academia, administration and bear a testimony to the caliber of the institution. I am confident that a placement visit to our campus will be mutually beneficial & students of the institute will be an asset to your organization. I heartily welcome you to NIT Raipur and hope that this interaction leads to a long partnership between our institute and your organization.



Dr. K.K. Sugandhi
Director, NIT Raipur

It's my privilege to invite you to National Institute of Technology, Raipur formerly known Engineering College, Raipur for campus recruitment of our students. National Institute of Technology, Raipur has a track record of outstanding performances of its pass-outs in different spheres. In a world where technology is changing very fast, it is indeed a challenging task to cater to the needs of industry for proficient manpower. I am privileged to say that we have been meeting this challenge successfully. Ubiquitous students of our institute, selected through a rigorous process, are amongst the best of the technical talent available. They are guided and trained by a highly qualified and experienced faculty, through a constantly updated curriculum to meet the fast changing needs of technology. Our laboratories are well equipped with modern, sophisticated instruments and machinery. The ex-students of this more than-four-decades-old institution are occupying key positions in many private and public sector undertakings in India and abroad and have brought laurels to the college. As I understand some of our alumni might be in the elite management cadre of your renowned company as well. It is with this background that we are extending an invitation to hold Campus Recruitment of final year students, who shall be passing out in May 2008. We would be glad to provide you with any further information and assistance in this regard.

Prof. Samir Bajpai,
TPO, NIT Raipur.



COLLEGE GENESIS

The first President of Independent India Honorable Dr. Rajendra Prasad laid the Foundation stone of the college building on 14th September 1956. The construction work was completed in 1962 and inauguration was on 14th March 1963 by India's first Prime Minister Pt. Jawaharlal Nehru. After independence and with reorganization of the state of Madhya Pradesh, the government's attention was directed towards giving priority to overall development of technical education. Till as late as 1956 there were only three technical institutes in the country offering courses in the important fields of Mining and Metallurgical Engineering.

In view of this fact and also with an aim of harnessing the ample mineral resources of the region, this institute was set-up on 1st May 1956 as Government College of Mining and Metallurgy. The first session of the college commenced from 1st July 1956 with the admission of 15 students each in Mining and Metallurgical Engineering. In 1958-59 with the commencement of additional courses in Civil, Mechanical and Electrical Engineering the college came to be known as Government College of Engineering and Technology. Later graduate courses in Chemical Engineering (1965), Architecture (1984), Electronics (1985), Information Technology (2000), Computer Science and Engineering (2000), Biotechnology, Biomedical Engineering (2003) were also started.



14th March 1963 First Prime Minister Hon'ble Pt. Jawahar Lal Nehru during Inauguration of Institute Building.



ACADEMICS

A dash of confidence, peppered with optimism, a good dollop of innovativeness, and oodles of sound knowledge that's what makes up the flavor of life. Very few are fortunate enough to have a mouthful of these. We, here at NIT Raipur are lucky to get all this and much more.

❖The institute is proud to impart education in universal value to the students based on a universal human centric philosophy of existence "Madyastha Darshan". The result and response to this program has been recognized and appreciated by the national resource center in value education engineering and MHRD. H.E. Dr. A.P.J. Abdul Kalam, ex-president of India has appreciated the efforts and specially made visit to the institute to interact with the students undergone third training.

❖The Continuing Education Cell @ NIT Raipur certifies the budding talent here for various courses like C/C++, AutoCAD, MATLAB, .NET Framework Etc. Etc.

❖The college comes under the Canada-India industry institute linkage project which works for the welfare of the students, staff and the women section of the society. It aims at the overall development of the students.

❖Very soon the college will have EDUSAT transmission. The EDUSAT network provides satellite-based tele-education facilities to students and teachers of the college. The teaching end is set up at IIT, Bombay by ISRO which will provide satellite bandwidth and install ground in the campus at Raipur.

❖The students are pivot around which the extra curricular activity of the institute revolves and plays a significant role in the life of students. The cultural, literary and the technical committee serves as an important adjunct to course work also.

❖SUB-DIC Bio-Informatics centre was established by Ministry of Science & Technology, Dept of Biotechnology, Government of India in the year 2004-05 at NIT Raipur. Its basic aim is to mould the country to absorb the upcoming trends in the field of Bio-Science.



DEPARTMENT DETAILS

The institute has been successful in keeping itself up to the standards by surpassing the expectation in producing engineers of international class and caliber.

1. Under Graduate Programs (B.E / B.Tech) : This four year degree program in various disciplines is divided into eight semesters. At the end of each semester the university conducts an examination. The last semester has a project program, it also includes industrial training sponsored by the college, and students also have to participate in various seminars in the college.

2. Under Graduate Program (B..Arch): This five year degree course is divided into ten semesters. At the end of each of the first eight semesters university examination is conducted, the last two semesters are for extensive research and project work leading to the submission of thesis prior to the completion of course.

3. Post Graduate Programs (M.E. /M.Tech): This is a two-year-duration course. The candidate should be graduate in the field of science or engineering and should fulfill the eligibility requirement as required by the respective disciplines. He should have a valid GATE score and should obtain a place by merit in the respective course.

4. Master of Computer Application (M.C.A): This is a three year post graduate course containing six semesters. The candidate should be a graduate of science and should secure a position in merit list of All India M. C. A. Common Entrance Test conducted by the MHRD GOI.

5. Research and Consultancy: Research and consultancy comprises of a study of the problem situations and thereby provides a context to the theoretical inputs of the Institute's program. The institute has a separate research department which takes care of all these initiatives.\\\\\\



ARCHITECTURE

Architecture is the art and science of designing and constructing buildings and other physical structures. A wider definition often includes the design of the total built environment, from the macro level of how a building integrates with its surrounding manmade landscape to the micro level of architectural or construction details. Materiality is of paramount importance since we see that the foundations of architecture, as a body of knowledge, are anchored in and generated from its physicality and tangibility. The emphasis on materiality also means that we should build our curriculum around practice.

CURRICULUM

- Architectural Design
- Computer Application in Architecture
- Building Constructions
- Climatology
- Landscape Architecture
- Surveying And Leveling
- Auto CAD
- Graphic and Visual Arts
- Building Services
- Mechanical and Electrical Services
- Air Conditioning (HVAC Systems)
- Professional Practice
- Town Planning
- Building Economics
- Project Management And Evaluation
- Energy Efficiency in Building
- Auto Desk
- 3D Studio Max
- MAYA

INDUSTRY INSTITUTE INTERACTIONS

The consultancy and testing part of the architecture department of our college have been very helpful in providing the consultancy for all the nearby institutions viz. C.G. PWD, C.G. Tourism Board , Chhattisgarh council of Science and Technology, Madhyamic shiksha Council Chhattisgarh. We have also been providing consultancy for the universities namely Pt. Ravishankar Shukla University.



ACHIEVEMENTS

The architects of our college have won very many collective prizes during their yearly visit to the National Asso Of Students Of Architecture (NASA). They have come up always with many projects and concrete archi structures for the city of Raipur also. Students from the department get admission in N.I.D-Ahmedabad ,S.P.A-New Delhi , CEPT and other very prestigious institutions to pursue master degree programs every year.

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Biomedical engineering may be defined as the application of engineering to medical science. Biomedical Engineers apply the concepts of Biology as well as Physics and Chemistry to develop products and devices, which are used in the diagnosis and treatment of diseases. Biomedical Engineers may be called upon in a wide range of capacities: to design instruments, devices, and software, to bring together knowledge from many technical sources to develop new procedures, or to conduct research needed to solve clinical problems

CURRICULUM

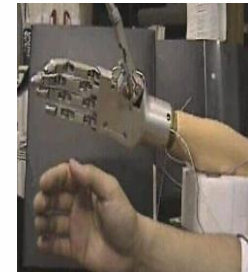
- Genetic Engineering
- Micro Biology
- Transport Physics
- Bio Physics
- Bio Mechanics
- Medical Imaging
- Bio Materials
- Tissue Engineering
- Neural Engineering
- Food Biotechnology
- Genomics And Proteomics
- Immunology
- Bio Safety
- Unit Operations
- Bio Process Plant Design
- Environmental Bio Technology
- Bio Statistics
- Management Studies

LABORATORIES

- Immunology Lab
- Tissue Culture Technology Lab
- Bio Process Plant Design Lab
- Bio Informatics Lab
- Unit Operations Lab]
- Optimization Technology Lab
- Bio Mechanics Lab
- Bio Physics Lab
- Bio Mechanics Lab

INDUSTRY INSTITUTE INTERACTION

The Branch was awarded for Best paper, by Institution of Engineers in Feb 2006. Paper presented on "Biosensors" was ranked the best in the conference held in IIT Chennai. Other papers presented by students on various topics like "Robotics", "Bio fuels Cells", "Nanotechnology" "Electro-circulation Model" etc were also published in the college news.



ACTIVITIES

Students have represented college at district, state, university & National level sports events including inter college table tennis championship. Biomedical branch is the winner of Intra college Basketball finals. Students have actively participated in National Cadet Cores, NCC have been appointed as senior under officer & sergeant. Student have organized various events including the Golden Jubilee Celebration. Semi finalist in inter NIT-IIT sport meet held in MNIT Jaipur on February 2007. A technical event "TECHNOPHONEY" was organized by students in Feb 2008.

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BIO TECHNOLOGY

The term encompasses a wider range and history of procedures for modifying biological organisms according to the needs of humanity. Department of biotechnology was established in 2003 with the aim of providing multidisciplinary research and teaching programs in various fields of modern biology. Biotech combines disciplines like Genetics, Molecular biology, Biochemistry etc. Which are in turn linked to practical disciplines like Chemical Engineering, Information Technology etc.

CURRICULUM

- Recombinant DNA Technology
- Enzyme Technology
- Immunology
- Plant Tissue Culture
- Drugs And Pharmaceuticals
- Bio Medical Engineering
- Bio-Informatics
- Catalyst Engineering
- Fertilizer Engineering
- Medical Imaging
- Bio Materials
- Prosthetic Devices and Artificial Design
- Bio Nano Technology
- Physiological Modeling
- Rehabilitation Engineering
- Medical and Bio Informatics
- Clinical Engineering
- Bio Sensors
- Medical and Biological Analysis
- Bio Mechanics

LABORATORIES

- Immunology Lab
- Tissue Culture Technology Lab
- Bio Process Plant Design Lab
- Bio Informatics Lab
- Unit Operations Lab]
- Optimization Technology Lab
- Bio Mechanics Lab
- Bio Physics Lab
- Bio Mechanics Lab

ACTIVITIES

BTSA is a forum formed by students of Biotechnology. Students are highly enthusiastic in organizing and participating in technical fests. This year they have organized a technical fest called 'TECHNOPHANY'. Students have participated in various national level fests and have also bagged prizes in paper-presentation and technical events. We at NIT RAIPUR believe that extra curricular activities are highly important in shaping up an individuals persona and hence always thrive to maintain a constant balance between academics and beyond.

INDUSTRY INSTITUTE INTERACTION

The Branch was awarded for Best paper, by Institution of Engineers in Feb 2006. Paper presented on "Biosensors" was ranked the best in the conference held in IIT Chennai. Other papers presented by students on various topics like "Robotics", "Bio fuels Cells", "Nanotechnology" "Electro-circulation Model" etc were also published in the college news.



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CHEMICAL ENGINEERING

The chemical engineering department which was established in 1962, stands as one of the oldest branches of this college. It offers PhD also along with bachelor's and master's degree. The faculties of this department have done specialization, in the fields of chemical plant design, reaction engineering, pollution control, chemical equipment design and many others. It has widely constructed laboratories having all kinds and varied equipments. It has been producing students having high caliber since over more than 40 yrs. The alumni of this have been holding very high posts in various industries in India as well as abroad.

CURRICULUM

- Industrial process calculation
- Inorganic process technology
- Fluid particles and calculation
- Process economic and management
- Heat and mass transfer Design
- Chemical reactions engineering
- Fluid mechanics
- Organic process technology
- Thermodynamics
- Process dynamics and control
- Reactor design and technology
- Process modeling and simulation
- Advanced heat transfer
- Separation process
- Computer aided process design
- Environmental pollution control
- Optimization techniques
- Operation research
- Advanced process control

LABORATORIES

- Inorganic process lab
- Unit operation lab
- Heat transfer lab
- Petroleum process technology lab
- Fuel technology lab
- Organic technology lab
- Instrumentation lab
- Fluid flow lab
- Separation process lab
- Process dynamics and control lab
- Computer lab with high level technology

INDUSTRY INSTITUTE INTERACTION

Students are regularly taken to the industries for vocational training and internship to make them accustomed with the industrial atmosphere. Department offers testing of engineering materials, testing of alternative fuels. Department also offers consultancy in the areas of energy auditing, design of mechanical/ thermal systems, design of refrigeration.



ACTIVITIES:

Several lecturers and professors have submitted papers in industrial/national seminars. Our students have bagged prizes in competitions conducted by TRI techno solutions India Ltd (2008) There has been a very active participation in all sports meet in various national institutes etc Students have also won gold medals for their research papers on 'Application of soft computing' in voltage regulation at seminar conducted in national level.

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CIVIL ENGINEERING

Set up in 1958, the civil department is one of the oldest department of the college. The department offers bachelors and masters courses for its students. The qualified & experienced faculty of civil department have been imparting expert knowledge to students in every field of civil engineering. Further the department also offers consultancy and testing facility which generates internal revenue. The department is also the 'state technical agency for PMGSY (prime ministers gram soda yeoman)

CURRICULUM

- Structural engineering
- Structural analysis
- Structural engineering design
- Hydraulics engineering
- Fluid mechanics
- Hydrology
- Water resources engineering
- Geotechnical engineering
- Transportation
- Highway and Airfield engineering
- Railway engineering
- Civil engineering design
- Building constructions
- Construction planning and management
- Surveying
- Disaster management
- Software
- C & C++ programming
- AutoCAD

LABORTATARIES

- Survey lab
- Concrete lab
- Fluid mechanics
- Geo tech lab
- Environmental engineering
- Transportation lab
- Structural engineering
- Computer lab
- Mechanics lab
- Site Survey Lab
- Surveying Lab
- Cement and Sand Lab

ACTIVITIES

The department organises national conferences which includes topics like emerging trends in civil engineering for infrastructure development. The professors have presented papers and attended conferences in the national and international levels. The budding civil engineers have formed a civil engineering Association which hosts annual techfests and conferences. It also conducts field visits, expert lectures, slide shows etc. Through which students gain experiences in practical problems encountered in civil engineering.

INDUSTRY INSTITUTE INTERACTION

The students are often taken out to visit to different construction sites, factories etc. Consultancy includes design and checking of design of all type of civil engineering structures, design of water and waste water treatment plants. Our clients include P.W.D.(bridge cons. , building and road), PHE for sump well & O.H tank-P.W.D.(irrigation), Raipur development authority, Raipur corporation and various private industries. The testing work is done for almost all civil Engineering activities



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COMPUTER SCIENCE

Computer science and engineering department aims at producing technically competent professionals who can excel in today's age of technology. Quality education is imparted in various disciplines, viz. artificial intelligence, software project management and compiler designing, to name a few, with special emphasis on practical application of knowledge. The department has long recognized its role in engineering education, generation and dissemination of useful and relevant technologies.

CURRICULUM

- Artificial intelligence
- Data mining and ware housing.
- Parallel processor and computing.
- Network programming.
- Unix and shell programming
- Compiler design
- Data base management (dbms)
- Computer system architecture
- Operating system
- Computer graphics
- Software project management
- Humanities
- Languages like C,C++,JAVA etc
- Robotics and computer Vision
- Inter networking with TCP/IP
- Multimedia and virtual reality
- Digital image processing
- Cryptography and network security
- Advanced DBMS
- Information Retrieval
- Design and analysis of parallel algorithm
- Digital image processing

LABORATORY:

- Computer networking and programming lab
- Electronics and telecommunications lab
- Operating Systems (UNIX/LINUX)
- Graphics imaging and multimedia lab
- Database management lab
- Advanced Computer Networking Lab
- Computer Programming Lab
- DBMS Lab
- Digital Electronics Lab
- Advanced Microprocessor Lab

ACTIVITIES

Students excelled in prestigious globally conducted examinations like SUN certified JAVA programming, jdk 1.4 and cleared Ethical hacking by Ankit Fadia. students and faculty members have been participating in various cultural and technical fests. Department's own student association also organizes several enlighten events from time to time.

INDUSTRY INTERACTION:

The Computer Science students from our college have been very much involved in the working and performance of Windows GUI based Projects Web Application And client server application. The college is also proposed to have Professional certification from oracle, Microsoft, sun and CISCO etc. to benefit the students. The high intelligent minds working all day and night in the college have been of greatest use for the installation of the LAN networks in our college.



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ELECTRICAL ENGINEERING

One of the oldest and most trusted disciplines of engineering studies, electrical engineering is the backbone of every industry. since the day it has been established it continues to be the pride of the institution, thanks to the disciplined and encouraging supervision of the several lecturers and professors. The department has also propelled various research programs in the field of signal processing, digital image processing control system etc. various organizations are indebted to us for receiving consultancy in design of heavy machines and electrical equipments, high voltage engineering, power electronics etc.

CURRICULUM :

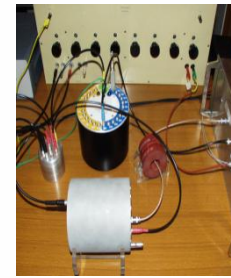
- Machine and Machine Design
- Network Analysis and Synthesis
- Electrical Power Generation
- Electrical Measurement And Measuring Instruments
- Material Science
- Electrical Power Systems
- Power Electronics
- Control System Engineering
- Protection Switch Care
- Analog Electronics
- Microprocessors
- Electronic Instrumentation
- Analog Electronics
- Computer System Architecture
- Analog And Digital Communication
- Electromagnetic Fields
- Network Analysis

LABORATORY :

- Electrical measurement and measuring instruments lab
- Microprocessors lab
- Electrical machine lab
- Network lab
- Analog lab
- Digital electronics and logic lab
- CNPS(MATALB) lab
- High voltage lab
- Solid State Devices Lab
- Materials Lab
- Measurement Lab
- Computer Lab
- Power Systems Lab
- Circuits Lab

INDUSTRIAL INTERACTIONS:

The department has very close relationships with the nearby power sectors plants namely NTPC KORBA, BALCO, CSEB etc. in the form of consultancy, guest lectures, and also are involved in many research of many new machines used in these industries.



ACTIVITIES:

Several lecturers and professors have submitted papers in industrial/national seminars. Our students have bagged prizes in competitions conducted by TRI techno solutions India ltd (2008) There has been a very active participation in all sports meet in various national institutes etc Students have also won gold medals for their research papers on 'Application of soft computing' in voltage regulation at seminar conducted in national level.

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ELECTRONICS & TELECOM

The Division of Electronics and Communication Engineering , since its inception , is well known for producing engineers with all round expertise to meet the growing demand for technical manpower in the industrial arena. The Division is equipped with excellent infrastructure and state of the art equipment to explore the technological challenges in the areas of Electronics, Communication Networks, VLSI design, Signal Processing, Image Processing, ASIC Design, RF Design and digital system design

CURRICULUM

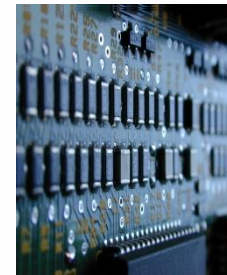
- Electromagnetic Theory
- Microprocessors
- Industrial Instrumentation
- Electromagnetic Waves and Antennas
- Digital Signal Processing
- Linear Control Theory
- Data Structure
- Computer Networking And Telecommunication Switching
- Communication Hardware
- Digital And Analogy Circuits
- Semiconductor Devices
- Industrial Electronics
- Power Electronics
- Embedded System
- Communication Systems
- ASIC Design
- Digital & Radio Communication
- VLSI Systems
- Electronic Instrumentation

LABORATORIES

- Electronic and Electronic Workshop
- Instrumentation
- Microwave And Optical Communications
- Computer Programming
- Digital Signal Processing
- Microprocessors
- Telecommunication
- Digital Electronics
- Analog Electronics

INDUSTRIAL INTERACTION

Electronics and computer for the department of C.G state government nodal agency). design and development of state wide counselling program for . various projects has been undertaken by the department students and teachers which includes the latest research topics like autonomous robots, bio-electronics etc.



ACTIVITIES:

Electronics Engineering Association'(EEA) have conducted various technical and cultural events like circuit designing, quiz, debates aptitude tests etc. The students are also in regular contact with various research agencies working on different research fields.

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INFORMATION TECHNOLOGY

In this era of software boom, it stands out to be the single largest contributors of various technical ideas. Our department offers a comprehensive insight into technology and steers its students to deliver awe-inspiring performances. We believe in the strategy of 'work and rove', under the able guidance of professors and the HOD, IT has unceasingly been the most sought after discipline.

CURRICULLAM

- Artificial Intelligence and Expert System
- Neural Networks
- Data Structure
- Cryptography (elective)
- Automata Language Computation
- Digital Electronics
- Microprocessor
- Computer Architecture
- Data Communication
- ISDN(elective)
- Telecommuting
- Enterprise Networking Inter Networking
- Operating Systems
- Database Systems
- Software engineering
- Object oriented programming
- Computer Graphics
- Distributed System
- Real Time Control System
- E-Commerce and Computing

LABORATORY:

- Computer networking and programming lab
- Electronics and telecommunications lab
- Operating Systems (UNIX/LINUX)
- Graphics imaging and multimedia lab
- Database management lab

INDUSTRIAL INTERACTION

Designing of employee and students database for statewide engineering and polytechnic colleges. in-house design and rapid development of websites. Students of the department are regularly given industrial training in the leading software and IT companies to keep in par with the latest technical advancement.



ACTIVITIES

There has been a very significant advancement in the fields of network design and administration, There has been persistent maintenance of the e-learning portal of institute – "E-learning server", Students' association ITSA (information technology students association) has been periodically conducting and also organizing many techno-management fests , on an extra academic level, like Linux administration and security workshop, 3D animation and the likes

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MECHANICAL ENGINEERING

The department of mechanical engineering is one of the oldest department of the institute and was started in the year 1958 with a view to cater to the needs of nearby located bhilai steel plant, railways and other industries in the developing free India. The Division conducts UG programme (B. Tech) and PG programme (M. Tech) in energy systems and environmental science. The present course is structured keeping in view the growing demand for integration of modern advances in automation and environmental engineering into the mechanical field. Department also offers PhD program in all relevant disciplines like design, production, thermal and industrial management.

CURRICULUM

- Engineering Mechanics
- Basic and Advanced Mechanics of Solids
- Theory of Machines
- Machine Design
- Fundamentals of Engineering
- Applied Thermodynamics
- Fluid Mechanics & Machinery
- Heat & Mass Transfer
- Compressible Fluid Flow
- Automobile Engineering
- Refrigeration & Air Conditioning
- Manufacturing technology
- Tool Engineering & Design
- Production Technology
- Metrology & Machine Tools
- CAD/CAM
- Industrial Organization & Management
- Management of production systems
- Industrial safety engineering
- Electrical Technology
- Industrial Electronics

LABORATORIES

- Strength of materials
- Automobile engineering
- Heat and mass transfer
- Energy conversion systems
- Thermodynamics
- Refrigeration Cryogenics
- Dynamics of machines
- Computer
- Cad-Cam
- Metrology
- Turbo m/c
- IC engine
- Engineering mechanics
- Workshop

INDUSTRY INSTITUTE INTERACTION

Students are regularly taken to the industries for vocational training and internship to make them accustomed with the industrial atmosphere. Department offers testing of engineering materials, testing of alternative fuels, inspection of furniture and equipments, department also offers consultancy in the areas of energy auditing, design of mechanical/ thermal systems, design of refrigeration and Air conditioning systems, design of solar energy based appliances, management of organization .



ACTIVITIES

MEA (MECHANICAL ENGINEERING ASSOCIATION) was formed with an aim to cater to the needs and aspirations of mechanical engineering students both on and off campus. The main aim is to keep the students shoulder to shoulder with changing technologies by organizing seminars and to develop the overall personality of the students by organizing literary and cultural activities. The professors have presented papers and attended conferences in the national and international levels.

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METALLURGICAL ENGINEERING

Metallurgical engineering department along with mining was started as the original two branches of the college in the year 1956. Students graduating from metallurgical engineering department are placed at very high and responsible positions spread in the field of research, academics and manufacturing Industries. The department has been maintaining their linkage with BSP, BALCO korba and with other ferrous and non ferrous plants. The x-students of this department have given commendable performance in research institutes like DRDO, BARC, DMRL etc and other premier educational institutes .

CURRICULUM

- Geology of minerals
- Chemical characterisation of materials
- Testing of materials
- Electrical technology and electronics
- Material science and Metallographic
- Heat treatment
- Industrial metallurgy
- Ferrous & Non ferrous extraction
- Alloys and their properties
- Foundry metallurgy
- Engineering polymer and composites
- Transport phenomena in metallurgical
- Principals of extractive metallurgy
- Computer programming and applications in metallurgical industries
- Electro metallurgy and corrosion
- Experimental techniques in metallurgy
- Powder metallurgy and ceramics
- Metallurgy of rare & light metals
- Furnace technology and ceramics
- Design and applications of engineering materials

LABORATORIES

- Physical metallurgy lab
- Heat treatment and hydrometallurgical lab
- Foundry lab
- Furnace lab
- Heat transfer lab
- Fuels and refractory lab
- Electro metallurgy lab
- Material science lab
- Computer lab
- Photography lab
- Industrial metallurgical lab

INDUSTRY INSTITUTE INTERACTION

Students are regularly taken to the industries for vocational training and internship to make them accustomed with the industrial atmosphere. Department offers testing of engineering materials, testing of alternative fuels, inspection of furniture and equipments, department also offers consultancy in the areas of energy auditing, design of mechanical/ thermal systems, design of refrigeration and Air conditioning systems, design of solar energy based appliances.



ACTIVITIES

METSO is the metallurgical society of the metallurgical engineering department which works constantly for students in the field of guest lectures, conferences, seminars and various other activities. Metallurgical department also offers a certificate course under national institute of secondary steel technology and a job oriented certificate course for betterment of the technical and professional view of the students.

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MINING ENGINEERING

The department of mining engineering, established as early as 1956, has been one of few branches that NIT Raipur started out with. And ever since then, there has been no looking back. Today's industrial scenario is incomplete without a sound knowledge of the Earth and its resources. A subtle balance between nature and industry is the need of the hour. The highly equipped laboratory facilities enable the students to be exposed to the practical world of mining engineering.

CURRICULUM

- Mining Geology
- Mine Surveying
- Mining Environment
- Engineering Materials
- Basic Electrical Engineering
- Mine Legislation
- Underground Metal Mining
- Surface Mining
- Mine Machinery
- Blasting Engineering
- Mineral Dressing
- Mine Management
- Underground mine survey
- Mine mechanics
- Metal and Mine Distribution
- Metal survey
- Geo Technical Engineering
- Rock Fragmentation
- Mine Support design
- Mine Simulation

LABORATORY

- Rock Mechanics Laboratory
- Simulation Laboratory
- Mine Environment Laboratory
- Mine Surveying Laboratory
- Method of Working Laboratory
- Mineral Dressing Laboratory
- Blasting Engineering Laboratory
- Mining Machinery Laboratory
- Climatology Lab
- Underground mine Lab
- Mechanics Lab
- Furnace Lab
- Heat Transfer Lab
- Computer Lab

INDUSTRY INSTITUTE INTERACTIONS

In case of industry institute interactions, the college's professors and students have been involved actively in the consultancy and testing sections of all the near buy mining industries. They have offered consultancy and testing to SAIL, Coal India Limited, NTPC, MONET ISPAT Ltd., Italian-Thai Development Public Company Limited, CSEB, IBP company Ltd etc.



ACTIVITIES

The students of Mining engineering department of our college are involved in many fellowship programs that include areas of Rock excavation, Geo technical engineering, rock grinding technology, rock mechanics, explosive performances of rocks, rock fragmentation, mine support design etc. The students are also involved in the excavation processes taking place in and near by coal mines. They have been taken to these mine areas and they have been highly helped by this.

[Click Here To Go Back To The List Of Branches](#)

M.C.A. Department has played a pioneer role in the development of our college. The broad objective of this department is to prepare post graduate students for productive careers in software industry and academia by providing an outstanding environment for teaching and research in the core and emerging areas of discipline. With the passing time it has tried to be in step with the need of the current scenario of the IT industry thereby proving the college a very prestigious name amongst the near by competitors.

CURRICULUM:-

- Fundamentals of information technology
- Mathematical Foundation
- Numerical analysis
- Computer Science Operating System
- Computer Architecture
- Computer Design
- Artificial Intelligence
- Formal Languages And Automata
- Data warehousing And Mining
- Programming In C & C++
- Visual Basic
- ASP/JSP/ASP.NET
- Core JAVA
- Communication and Networking
- Network Programming
- Enterprise Resource Planning
- DBMS
- Information Systems
- Accounting And Management

LABORATORY:

- Computer networking and programming lab
- Electronics and telecommunications lab
- Operating Systems
- Graphics imaging and multimedia lab
- Database management lab
- Advanced Computer Networking Lab
- Computer Programming Lab
- DBMS Lab
- Digital Electronics Lab
- Advanced Microprocessor Lab

INDUSTRY INTERACTION:

The MCA students from our college have been very much involved in the working and performance of Windows GUI based Projects Web Application And client server application. The college is also proposed to have Professional certification from oracle, Microsoft, sun and CISCO etc. to benefit the students along with regular degree of MCA. The high intelligent minds working all day and night in the college have been of greatest use for the installation of the LAN networks in our college .



ACTIVITIES

Students excelled in prestigious globally conducted examinations like SUN certified JAVA programming, jdk 1.4 and cleared Ethical hacking by Ankit Fadia. students and faculty members have been participating in various cultural and technical fests. Department's own student association also organizes several enlighten events from time to time.



THE OTHER SIDE

THE OTHER SIDE



Hostel Life

The hostel is a second home to students from every corner of the country ranging from The Himalayas in the North to the Nilgiris in the South and from the deserts of Rajasthan in the West to the tea gardens in the East. The competitive recreational activities includes weekly LAN gaming and many more excitements, and each vying to prove its mettle.....

.....The students @ Nit Raipur are front runners in all phases of life that include their creative outcomes like the “Tech Fests”, the Sports “Olympions”and many more countless blend of academics and sports, making them stand apart from the crowd....and this has proven to be the avant-garde in every path of success.

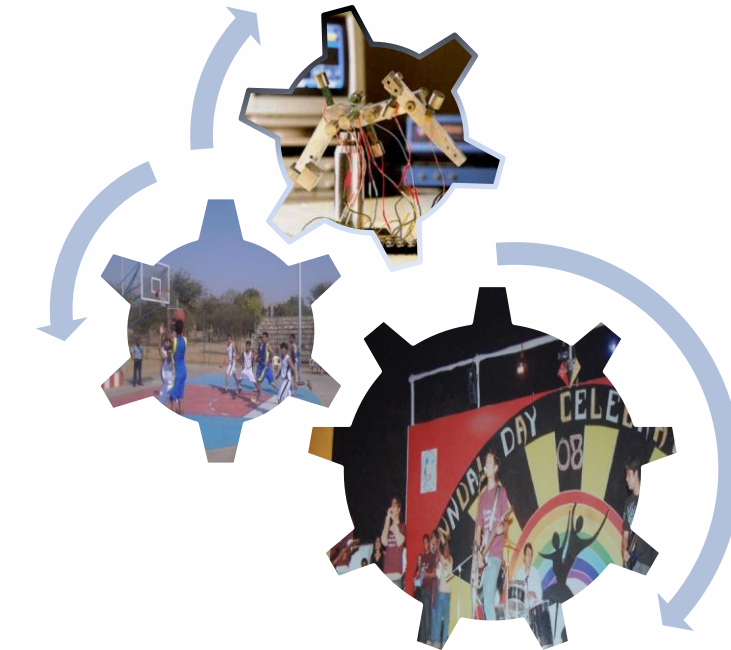


Sports

THE OTHER SIDE

NIT Raipur is the seat of the most vibrant philosophies-ones that compel you to sit straight and consider a retake on life. In an age of global economic competition, the institution offers a subtle, yet perfect blend of academic excellence and high ethical standards. Placed strategically, right in the heart of the country, we are home to students from every corner of the nation. This has helped in the evolution of eclectic ideas and has boosted the institution's intellectual standards. Under the secure canopy of our highly erudite professors and lecturers, the students are soon emerging the future designers of highly complex technical systems. The general air of sharing knowledge- be it from professor to a student, or even among students is something Of a legacy here.NIT Raipur has produced gems since 1956 and still continues to be a gold-mine of exceptional talent. It has proven to be 'avant-garde' in the field of science and technologies. Throw us a challenge, and we will play it through !! That is our philosophy.

After all 50 years is a very long time.....



PLACEMENT @ GLANCE

Placement Procedure

1. Invitation are sent to companies /organizations with the placement brochure and Job Response Form (JRF).
2. Company/organization fills the JRF and sends it by email/post to Placement Office, NIT RAIPUR, along with possible dates for Pre-Placement Talk (optional).
3. Information provided by the company will be made available to the students. Interested students register their.
4. Placement office schedules date for campus interviews as per the ranking by the students. The company/organization can confirm or negotiate the dates with the placement office.
5. Resumes of interested candidates are made available for the company as per the request.
6. Short listed students get notified.
7. After the completion of selection procedure on campus. Company is required to announce the final list of the students that day itself.
8. If a student is selected, a job is registered against him/her under the basic & dream company sections and he/she would not be allowed to appear for more interviews as per placement policy.

Well organized and good coordination - Lafarge Industries

Good discipline amongst the students! -CTS

Impressive Building and Impressive Management- JSW Steels

Excellent Hospitality! - ISPAT

Excellent arrangements done by the college and volunteers-TCS

NATIONAL INSTITUTE OF TECHNOLOGY, RAIPUR
(Formerly Government Engineering College, Raipur)
Established - 1956

PLACEMENT POLICY
(CAMPUS PLACEMENTS 2007-08)

Placement cell is to provide placement opportunities to the students of the college.

छात्रों के टीमवर्क का कमाल

कंपनियों का कैंपस छात्रों की पसंद पर

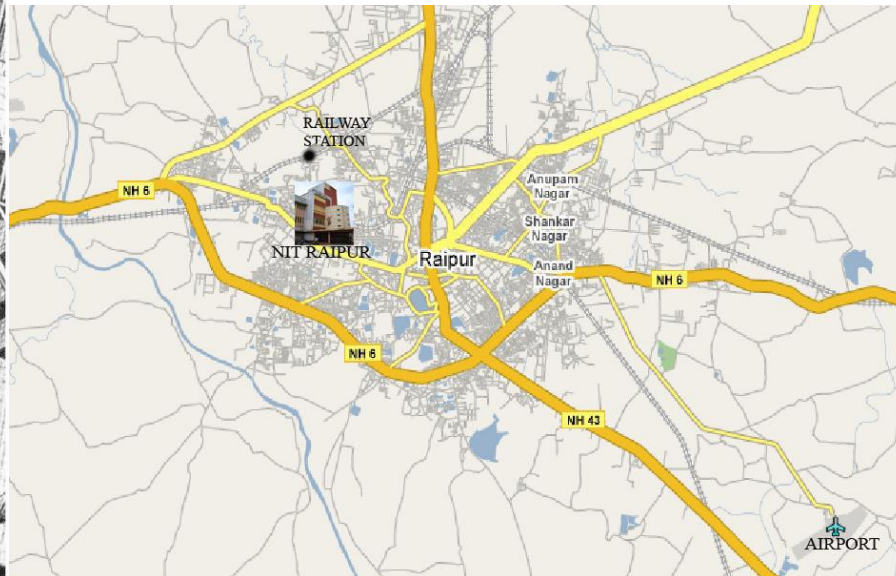
एनआईटी ने लागू की व्यवस्था, इससे छात्रों को काफी फायदा

कैंपस इंटरव्यू के लिए बनी छात्रों की को-ऑर्डिनेशन कमेटी।

PLACEMENT - CELL

HOW TO REACH US

ROUTE MAP



The city of Raipur is situated on the trunk line connecting Bombay and Howrah at a distance 831 Km from Howrah and 311 Km from Nagpur on the national highway #6. The location of this institute is in the vicinity of Bhilai steel plant. Raipur is well connected through Air-Routes from Mumbai, New Delhi, Chennai, Bhubaneshwar, Vishakhapatnam, Nagpur and Kolkata. The campus is away from hubbubs of the city yet it is easily accessible from it. The institute is about 5 km from the Raipur railway station and about 12 km from the air port.



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