

NIT Rourkela



2018-19

Placement Brochure



from the **DIRECTOR's DESK**

On behalf of National Institute of Technology, Rourkela it is my pleasure to welcome you to this beautiful campus. This institute has been known for its hospitality for more than four decades, and we strive hard to keep up the tradition. In case we have inadvertently slipped somewhere, I offer my sincere apologies. Our academic programme is amongst the best in the country. It provides an optimum mix of theory and practical, with a strong bias on industrial and managerial applications. In more recent years, an introduction of modern computational tools and digital equipment have further improved the programme. While the depth of training in engineering & management subjects is unquestioned, the span of our curriculum is often overlooked. The NITR student learns subjects across departmental boundaries and excels in extracurricular activities. The mix of technology and management skills that a NITRian possesses makes him an invaluable asset to any organization he works for. With seventeen departments awarding degrees in engineering, science and management, we are one of the most diversified institutions. Whether you are young or old as a company, whether your business is in coal mining or in data mining, whether the job you are offering is in the shop floor or in R&D, we have the right engineer and manager for you. We give you freedom and extend to you all physical facilities to carry out your own recruitment process on our campus. In case you have a time constraints or other inconvenience, we shall only be too glad to meet your selection team in another city. Whether you have regularly recruited our graduates and postgraduates, or you are visiting us for the first time, I am sure you will find our students very competent and you will visit us again, year after year. We look forward to a warm and enduring relationship.

-Prof. Animesh Biswas

from the
HEAD,

TRAINING AND PLACEMENT CENTRE



On behalf of National Institute of Technology, Rourkela, it is my pleasure to invite you to our beautiful academic campus for conducting campus selection programmes for our students. It is my privilege to mention that this institute was established in 1961 and over the years it has earned recognition not only in India but all over the globe. The students of this institute are occupying enviable positions in various organisations at home and abroad. Many of them have been the driving force behind the industrial landscape of our nation.

Our Institute enjoys the status of Institute of National Importance. Presently a massive developmental work has been completed under the World Bank funded Government of India's TEQIP scheme for all the Departments. The Institute has earned fame not only for its excellent academic and extracurricular activities but also for its research, consultancy and development activities with this brief background I am furnishing in the pages to follow all pertinent information about us.

I would request you to kindly visit our campus for selecting candidates of your choice on any date convenient to both of us. Expecting our interaction to grow over the years to come..

- Prof. S.K Patel



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ABOUT NIT ROURKELA

Since 1961, NIT Rourkela has worked towards becoming one of the most renowned technological institutions in the country. Since its birth, the institute has attracted many of the brightest minds in India. Located at the vibrant conjunction of Rourkela's industrial landscape and civilization, NIT Rourkela has grown to be one of the most respected names in the field of technical education in the country. Today, the institution is recognized as an institute of national importance along with the IITs and IIMs by the NIT Act. The cumulative accomplishments of its highly talented and widespread alumni is in a large measure responsible for the ever growing tradition and reputation of NIT Rourkela as one of the best engineering and research institutions in the country.

VISION

To become an internationally acclaimed institution of higher learning that would serve as a source of knowledge and experience for the society and be a preferred destination for undergraduate and graduate studies.

MISSION

To advance and spread knowledge in the area of science & technology, leading to creation of wealth and welfare of humanity.

PRINCIPLE

Every faculty, staff and student of NIT Rourkela is passionately committed to the mission of making India a world leader in technology and science, and nurtures this commitment with honesty, hard work and team spirit.



WHY RECRUIT AT NITR

An Institute of National Importance

NIT Rourkela distinguishes itself not only as another institute which encompasses engineering courses, but as one of national importance, by virtue of an act of parliament (NIT act - 2007), which is here to serve a larger purpose where getting a degree is not the primary focus. The idea of creating better technologists, better leaders and most importantly better citizens suffuses through the teaching pedagogy of the curriculum.

Choices in Curriculum

NIT Rourkela offers a plethora of choices to its students in the field of engineering, architecture, sciences, arts and management. The departments offer a wide range of courses which are designed to meet current requirements of the industry and the academia. The curriculum encourages students to apply theoretical learning to real-life scenarios in the form of case studies, research, events and live projects. The key principle behind all of the activities taken up by the students is aimed at their holistic development to build a better individual and a better personality as a whole and not merely a good engineer.

A Culture worth Preserving

It goes with the saying that as long as there is a spirit within, there is a world waiting to be explored. It has been more than 50 years since the establishment of NIT Rourkela, and it is the spirit of this institute that has remained intact, which NITRians imbibe and carry forward wherever they go. The hallmark of this spirit has been not to walk on the path already taken but to establish new routes, to take the less trodden path and be the first to respond to the needs of the people and the nation.

Top Ranked Institute

NIT Rourkela has consistently won top awards and has always been ranked among the top Technical Institutes of the country, including IITs and NITs. Recently it was ranked 2nd among all NITs and 15th among all technical institutes in India by MHRD. NITR was ranked 11th "Best Tech School" by DQ-CMR Survey 2013-14. ABP News awarded the institute with the "Outstanding Engineering Institute of Eastern India Award" in the year 2014, 2013 and 2012. ET NOW conferred our ex Director Prof. S.K. Sarangi, Director with "Education Leadership Award" in 2013.

AWARDS AND ACCOLADES

2017

- Ranked 2nd best NIT by MHRD in NIRF ranking for second time in a row.
- Ranked 195th in BRICS & Emerging Economies ranking
- NIT Rourkela was ranked in the list of 601-800 World Universities ranking
- Ranked 8th in Times Engineering Institute Ranking Survey.

2016

- Ranked 2nd best NIT and 12th best technical college in India by the MHRD.
- Ranked 19th position among Indian Institutions and 191-200 globally in the Times world Asian University Ranking 2017.
- QS university ranking: BRICS 2016 has figured NIT Rourkela in the list of 111-120 top universities in Brazil, Russia, India, China and South Africa.
- Times world ranking of universities 2016-17 has figured NIT Rourkela as the only NIT to appear in the top 980 universities in the world. NIT Rourkela was ranked in the list of 601-800 world universities in 2016-17.

2015

- Ranked 1st by World Bank amongst all technical institutes of the country for project implementation
- Ranked 9th in DQ-CMR, Top T-Schools, 2015
- Ranked 13th in Careers 360, Outstanding Universities (Engineering Public), March 2015

2014

- Ranked 7th by Global Human Resource Development Centre, CSR Engineering Institute Survey 2014
- "Outstanding Engineering Institute (East)" – ABP News in 2014
- Ranked 11th by DQ-CMR Best Tech. School Survey 2013-14

2013

- "Education Leadership Award" to Prof. S.K. Sarangi, Director, ET NOW in 2013
- Ranked 1 among NITs and ranked 7th among all India Technical Institutions in Academic Environment.
- "Outstanding Engineering Institute (East)" ABP News in 2013
- "Best Government Engineering College" – ABP News in 2013

INFRASTRUCTURE

With a gigantic 647 acres area, covered by a lavish greenery, the campus of NITR is situated right at the junction of hills of Rourkela. The campus is embellished with numerous and rapid development happening in all nook and corners of the institute making it more enhanceive. It has been well rendered with all the modern amenities. The entire campus is connected by a state of the art network with 5000 nodes. Every student and faculty member has a networked personal computer at his/her disposal. With an internet bandwidth of 180Mbps and 850 Mbps intranet bandwidth, NIT Rourkela hosts one of the most advanced networks in the country. Furthermore, the institute has well-maintained seminar halls as well as facilities for video conferencing. The institute also has Wi-Fi connectivity and e-class-rooms available for online lectures.

CENTRAL LIBRARY

Named after the former Chief Minister of Odisha, it serves as the powerhouse for research and studies for the entire institution. Spread over three floors, the library is an invaluable resource with 61,800 books and 20,000 back volumes of periodicals. It is automated with an integrated library software package called Libsys – LSmart and modernized with latest Radio Frequency Identification (RFID) based automation system. The online repository hosted by the library also hosts ever paper, dissertation and thesis published by the students and faculty.



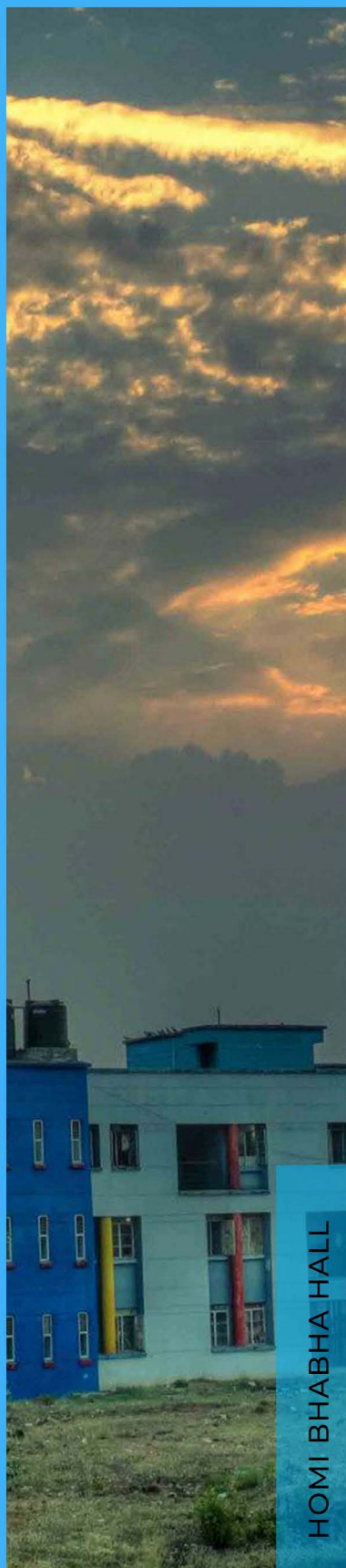
**BIJU PATNAIK
CENTRAL LIBRARY**



**BBA
AUDITORIUM**

COMPUTER CENTRE

The Central Computer Centre offers round the clock services with an uninterrupted power supply to students on the campus with the latest infrastructure supporting research and studies at the campus. The computer centre hosts the latest IBM servers with a storage capacity of up to 100TB. In a huge boost to the already advanced computing capacity, a 2 teraflops High-Performance Computing (HPC) System has been installed. An L-2 Datacentre is also being installed.



HOMI BHABHA HALL



**Lecture Avenue
(LA)**

AUDITORIUM, LECTURE HALLS & CONFERENCE ROOMS

The campus hosts a centralised air-conditioned auditorium, The Bhubaneswar Behera Auditorium, with a seating capacity of over 1000. The campus also has a Lecture Gallery Complex with different galleries having seating capacities of 60, 120 and 240 along with 12 other conference rooms and the Pranakrushna Parija Auditorium with a seating capacity of 300, all of which are adequately equipped with uninterrupted power supply, air conditioners and LCD projectors. Facilities, round the clock, are available to conduct tests online.

All work and no play make Jack a dull boy indeed. At NITR, games and sports receive equal attention as any other academic activity. The sporting infrastructure, one of the best among NITs, consists of the Aquatic Sports Facility, The Dilip Tirkey Hockey Stadium, The P. T. Usha Sports Complex and The Sachin Tendulkar Cricket Stadium, all replete with floodlights, wherever necessary. A separate body for Games and Sports regulates, manages and organizes sporting events like the Annual Athletic Meet, Inter and Intra-Hall sports activities and various cricket and football leagues. There are separate squads for all the games that represent the institute at Inter-NIT Sporting events.

SPORTS FACILITIES



**Vikram Sarabhai Hall of
Residence is acclaimed as
one of largest hostels of India**

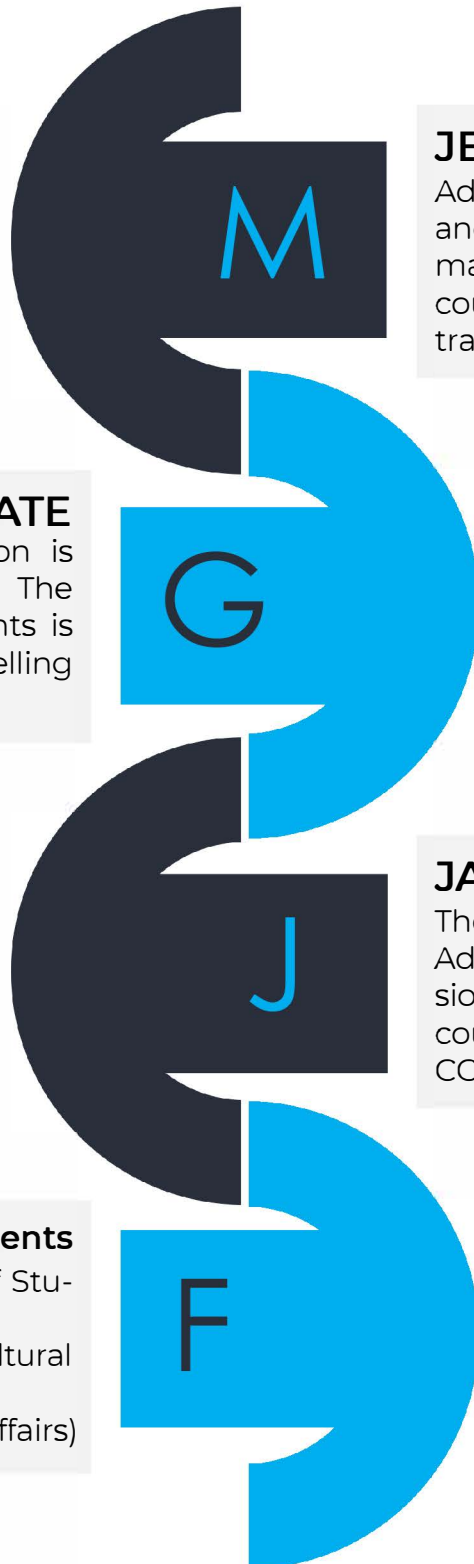


**PPA is another auditorium
in NIT Rourkela apart from
BBA to organise semi-
nars/workshops.**



THROUGH THE
ROADS

ADMISSION PROCEDURE



JEE MAINS

Admission to all B.Tech, Int MSc and dual degree programs are made through JEE Mains. The counseling for this is done by Central Seat Allocation Board (CSAB).

GATE

The M.Tech/M.Phil admission is through GATE Examination. The counselling for these students is done by Centralised Counselling for M.Tech/M.Phil (CCMT).

JAM

The two year M. Sc. students take Admission through Joint Admission test held across India. The counseling for this is done by CCMN.

Programs for Foreign students

1. DASA (Direct Admission of Students from Abroad)
2. ICCR (Indian Council for Cultural Relations)
3. MEA (Ministry of External Affairs)

DEPARTMENTS

Biotechnology and Biomedical Engineering



Established in 2007, Department of Biotechnology and Medical Engineering envisages of becoming a globally recognized department of higher learning by producing quality engineers and technologists in the field of Biomedical Engineering. The department has a robust infrastructure and sophisticated laboratories to carry out research. It boasts of high-end instruments like two FACS machines (one for cell sorting), UTMs, a DSC, a Spectrofluorometer, an FTIR, Bioreactors and even a confocal microscope in the pipeline.

B.Tech: 42

M.Tech: 27

Civil Engineering

The Department of Civil Engineering at NIT Rourkela is the oldest branch which was established in 1961. The Department is known for its reputed faculty having expertise in diverse fields. It has built up a wide research potential. Various laboratories on structural, geotechnical, aggregate and bitumen testing, hydraulics and environment engineering managed by respected professors and trained technicians, are well equipped with modern sophisticated instruments to take up the new challenges in research. The faculty also renders technical service on engineering problems to various agencies/industries in the form of consultancy projects.



B.Tech: 46

Dual Degree: 20

M.Tech: 78

Chemical Engineering



The department was established in the year 1963 with undergraduate program and initiated postgraduate (PG) program in Coal Chemicals and Fertilizers in the year 1981. The Chemical Engineering programme at NIT, Rourkela, with its interdisciplinary flavours along with its diversified structure is dedicated to the aspiring students and mentoring them for the broad spectrum of Chemical Engineering careers. Above and beyond the classes, all the students carry out independent research through project and thesis work. The Department has an excellent ensemble of dynamic goal oriented, highly qualified and experienced faculty members.

B.Tech: 44

Dual Degree: 10

M.Tech: 26

Ceramic Engineering



Established in 1994, the Department of Ceramic Engineering at NIT Rourkela is India's only integrated program in Ceramic Engineering among all the 20 NITs having a proper blend of competitive teaching and innovative research. The department boasts of state of the art laboratories having modern equipment for chemical analysis, fuel testing, high-temperature analysis, glass and bio-ceramics with a workshop, well stocked with high-temperature furnaces and facilities dedicated to working on whiteware, refractories and cement. Presence of equipment such as dilatometer, DSC/TC, Universal Testing Machine (UTM), UV Visible Spectrometer and BET machine enable advanced material characterization/testing and make the department a centre of excellence for both traditional and modern ceramics.

B.Tech: 24

Dual Degree: 7

M.Tech: 9

Computer Science Engineering

One of the most coveted branches in NITR, the Department of Computer Science and Engineering has already completed 28 years since it got introduced in 1987. The department is guided by highly qualified and energetic faculty members with diverse research interests. On the educational front, the curriculum is designed with a motive to prepare students to be industrial and academic leaders who can apply computer science principles across a wide variety of fields. Sophisticated laboratories on database engineering, parallel algorithms, artificial intelligence, soft computing, software engineering, computer networks & image, Distributed Object System processing provide a sound base for research activities. In order to match with the fast pacing technologies, various interactive workshops and seminars are organized by the department all throughout the year.



B.Tech: 80

Dual Degree: 22

M.Tech: 47

Electronics and Communication Engineering



The Department draws upon some of the brightest minds of the nation as the faculty who work towards building a scientific temper among its equally brilliant students. Well equipped state of the art laboratories cater to all kinds of training and research needs of the students, and the courses are specifically devised to suit upcoming developments in technology to provide the required orientation and experience. The department has focused on latest technological facility for nano-integrated circuits and embedded system design for diverse applications of communication, microelectronics, computer vision, intelligent instrumentation and advanced signal processing, training students for global careers in challenging environments.

B.Tech: 35

Dual Degree: 20

M.Tech: 64

Electronics and Instrumentation Engineering

Established in 1992, this specialized branch streaming right out from electrical and electronics engineering deals with measurement, control and automation of processes. NIT Rourkela is one of the few colleges that offer this multidisciplinary course and has been among the top notch ever since. The branch ensembles an excellent team of highly qualified and experienced faculty members who thrive on motivating and shaping the students undertaking this course in the most dedicated manner. The course structure of the branch makes its instrumentation engineers fit for both the hardware and the software industry. The carefully planned laboratories and regular industrial visits make our engineers capable of manning and managing almost all process and manufacturing industry such as steel, oil, petrochemical, power and defence production having a separate instrumentation department.



B.Tech: 33

Electrical Engineering



The Department of Electrical Engineering, since its inception in the year 1961, has been nurturing the talent of the engineering students to make them competitive globally. The curriculum of the department demands rigorous hard work and creativity. The Department aims at quality education by facilitating a sound foundation in theoretic fundamentals through a combination of good teaching environment and excellent laboratory & computational facilities. It also provides valuable exposure to industrial and research practices through regular industrial visits and inclusion of students in various research projects. The various labs include the Art and Aesthetic Lab, the CAD Lab, the Product Design and Development Lab and the Creative Automation Lab and is equipped with FARO Arm, 3D Printer, SCARA robot and many other advanced machines.

B.Tech: 56

Dual Degree: 29

M.Tech: 68

Food Processing Engineering

The department of food process engineering was established in July 2013. The major focus has been to create a fine blend of theoretical and practical knowledge keeping in mind the industry requirements. The department is equipped with all the latest technological equipment and machinery. The various lab includes Food Chemistry lab, Dairy Processing lab, Air Conditioning and Refrigeration lab, Product Design and Development lab, Fluid Dynamics lab, Food Microbiology lab, Food Grains Processing lab, Unit Operations lab, Heat and Mass transfer lab and is equipped with machines like Spray dryer, Microwave dryer, Infrared dryer, Texture analyser, Hot air dryer, Colorimeter, Orbital Shaker, Hammermill, Turmeric oil expeller, Rotary evaporator, Rice husker, Soxhlet extractor, Rice polisher, etc. Our able faculties expertise in majors such as Transport process and kinetics, Food packaging and storage, Food Nanotechnology, Food properties and post-harvest operations



B.Tech: 14

Industrial Design



The Department of Industrial Design, NIT Rourkela was established in 2010 and has shown an exponential growth in last 6 years. Our able faculty members expertise in majors such as product modelling, design and analysis, innovative product design, interaction design, industrial automation, ergonomics, rapid product development and reverse engineering. The Department has the facilities for design, including a CAD (Computer Aided Design) lab, featuring 3D design software like Solid Works 2015, CATIA V6R2014 and MasterCam, an analysis lab with ANSYS 15.0 and other software, an Art and Aesthetics lab which houses traditional photo editors, CINTIQ 24 WACOM touch tablet and content creators like Corel Draw, Adobe Photoshop CS6, Adobe. In addition to it, the Department has a Product design and Creative automation lab which includes various high-end technological machines and devices like FaroArm Fusion 7-axis, RP System Dimension 3D printer SST 1200es, Aristo 6XT – 6 axis articulated robot and SCARA

B.Tech: 28

M.Tech: 15

Mechanical Engineering

Since its inception in 1961, the department has been nurturing its talent through its courses complying with the recent technological developments and specialized labs. It has some of the nation's uniquely qualified faculties who mentor the students in their endeavour to stand up to themselves and flourish as the torch-bearers of tomorrow's industrial revolution. The department is equipped with laboratory facilities like CAD/CAM, mechanical vibrations, CFD, precision engineering, Industrial Refrigeration and Cryogenics, Hydraulic machines, Heat transfer, Automobile Combustion engines, metal machining, non-conventional machining and metal forming. The Department has close scientific & technical relationships with industrial majors like SAIL, OCL, L&T, TATA Steel, TATA Refractories Limited, BOCL, NALCO, etc.



B.Tech: 90

Dual Degree: 10

M.Tech: 68

Metallurgical & Materials Engineering



Established in 1963, The Department of Metallurgical and Materials Engineering stands firm in its commitment to producing the finest metallurgical engineers in the country. Equipped with sophisticated instruments in the Process Metallurgy, Physical Metallurgy and Advanced Materials Laboratories, it also boasts of other high-quality machinery have been added to carry out research. The Department has been carrying out re-search and innovative technological development in core areas of material science. The Department is actively pursuing research by inviting a number of industries; the likes of Rourkela Steel Plant (RSP), Tata Steel, Dalmia Research Institute and Orissa Cement Limited. Faculty members and students often publish high impact factor articles in various journals of international repute.

B.Tech: 46

Dual Degree: 8

M.Tech: 13

Mining Engineering

The Department of Mining Engineering boasts the modern and sophisticated equipment for physical experimentation viz. DTA, AAS, Computer Controlled Compression Testing Machine, Digital Bomb Calorimeter, UV-visible Spectrophotometer, GPS, total Station etc. It also has the latest computing facilities with state-of-the-art software like Surpac, Flac 2D & 3D, Udec, Galena, Labview, Ventsim, Petrasim, Whittle, ArcGIS etc. It houses state of the art laboratories on Rock Mechanics and Ground Control, Geo-Mechanics, Mining Geology, Mine Surveying, Mine Environment and Safety, Mineral Processing and Solid Fuel. With diversified research interests, the department undertakes a number of MHRD, NIRM, CSIR and DST sponsored projects every year. The department also provides consultancy services to Singareni Coalfield Collieries Limited, SAIL RMD, JSPL, NALCO, Shapoorji Pallonji and Co. Ltd, Manganese Ore of India Ltd, Hindustan Zinc Ltd, and Coal India Ltd.



B.Tech: 35

Dual Degree: 10

M.Tech: 18

Department of Chemistry



The Department of Chemistry offers a 5-year integrated M.Sc., 2-year M.Sc. in chemistry courses, and doctoral research programs leading to a PhD degree. The Department has well-equipped laboratories in the fields of Inorganic, Organic, and Physical chemistry with special emphasis on heterogeneous/ homogeneous catalysis, Environmental Pollution Control, adsorption studies, organic synthesis, electrochemistry, Nanomaterials, surface chemistry, photochemistry, solid state and structural chemistry and optoelectronics. Presently, sixteen sponsored research projects are being carried out by the faculty members of the department which are funded by various funding agencies such as DST, CSIR, DRDO, FIST, DBT, BRNS, etc. The department has state-of-the-art laboratories as well as analytical equipment such as NMR, ESI-MS, Cyclic voltammetry, Surface area analyzer, UV-Vis, FTIR, and CHNS analyzer which are used for research purpose.

Int.MSc: 28

MSc: 23

Department of Mathematics

The Department of Mathematics came into existence in 1965 and has been offering 5-year integrated and 2-year Post Graduate M. Sc. courses and doctoral research program which contain both core and applied aspects of mathematics. The department also has its own library and students can avail different books. The highly qualified faculties and talented students publish a good number of research papers over a wide area of applied mathematics. Research includes various inter-related areas like algebraic topology, boundary value problem, operations research number and computational mathematics.



Int.MSc: 23

MSc: 26

Department of Physics and Astronomy



The department provides excellent opportunities for education & research in a wide spectrum of areas in Physics through its well-received undergraduate engineering, Master's (integrated 5-year & 2-year) & Doctorate program. The department has well-equipped laboratories such as X-Ray Lab, Soft Condensed Matter Lab, Thin Film Lab, Electro Ceramic Lab, Cryomagnetic Lab, Spectroscopy lab, Composite Lab and Computational Physics Lab. The department has also collaborated with DRDO, UGC-DAE, DST-FIST, CSR, DPT, NGC, UGC-DAE-CSR (Kolkata), UGC-DAE (IUAC-New Delhi), MINISTRY OF ENVIRONMENT & FOREST, and NEW DELHISTIO with Penn State, the USA for research. Last year the department organized a national seminar on condensed matter physics with great success.

Int.MSc: 22

MSc: 20

Department of Life Science

The Department of Life Science was established in the year 2009 with a new dimension of human science development and its implications on Scientific, Technical and Economic infrastructure of the country. It has got robust infrastructure consisting of sophisticated laboratories of 'Biochemistry and epigenetic, microbiology, cell and cancer biology, protein biotechnology, RNAi and bioinformatics, food microbiology and immunology with well-equipped instruments to carry out research work. Department is first among all the NITs to run projects on understanding bio-film formation quorum sensing during bioremediation. It recently got a DBT sponsored project. Other research areas being covered are cancer biology, epigenetic, Lipid as a signalling molecule, biochemistry tissue engineering, drug/vaccine delivery, biotechnology, aquatic biotechnology, ecology, biodiversity, biomedical engineering. The department has published papers in reputed journals.



Int.MSc: 14

MSc: 21

Humanities and Social Sciences



Established in 1961, Humanities and Social Sciences is a multidisciplinary teaching and research Department dedicated to advancing knowledge with regard to society, culture, language, literature, human psychology and economic development. With the conviction that the perspectives in humanities and social sciences provide purpose and direction to both education and life, the thrust of the department is on the four basic disciplines of English, Psychology, Sociology and Economics.

Earth and Atmospheric Sciences

The courses offered by the Department are interdisciplinary and applied in nature. NIT Rourkela is the first and only NIT in India to offer a Master's Programme in Development Studies. This program has been operational from the academic session 2010-11. The Department also offers open elective courses to the engineering students of the institute.



MSc: 20

School of Management



The newly established School of Management is the latest jewel added to NITR's crown of departments. Its objective is to develop managerial innovation and leadership talent of the students and to build a system driven approach to management techniques and prepare students for business challenges. The school offers a two-year post-graduate program in Business Administration (MBA) and subsequent research activities. The department focuses on value-based teaching, learning environment, action-oriented research and consulting industries by developing a strong academic-industry interface. In addition to professional expertise, the department gives more emphasis on training students for collaboration and teamwork through the development of human relations skills.

Areas of Specialization are Marketing, Finance, Human Resources, Operations Systems and IT Inter-Disciplinary Branches

MBA: 30

Planning and Architecture

The Department of Planning and Architecture (PA) was established in 2013 with the objective of amalgamating the aesthetics and technology together into a piece of art, in a creative way, not only to fulfil the societal need of shelter and to solve the infrastructure problem but also to take care of the emerging concern of energy and environmental issues. The department is providing multidisciplinary research and teaching programmes in the field of architecture and planning. The faculty members have diverse research interests and they conduct basic and applied research in the area of Sustainable Architecture, Energy Efficient Architecture, Green Architecture, Acoustics, Illumination, Landscape Architecture, Interior Design, Urban Planning, Transportation Planning, Infrastructure Planning, Environmental Planning and Housing.



B.Arch: 26

Multi Disciplinary Courses



NIT Rourkela offers interdisciplinary M.Tech programs namely :

1. Cryogenics and Vacuum Technology
2. Steel Technology

The inputs to the programs are interdisciplinary and courses are handled by more than one department. Admission to these courses is done through CCMT (Centralized Counselling for M.Tech. / M.Arch./ M.Plan admissions).

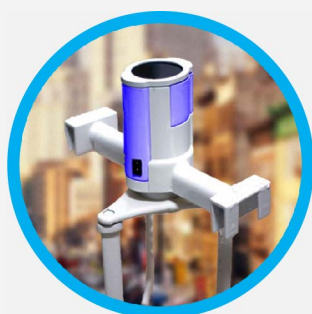
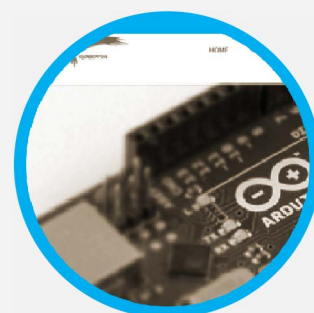
INSTITUTE INDUSTRY RELATIONS

Technology Innovation and Industry Relations Center (TIIRC):

TIIRC aims to facilitate small start-ups and corporate agencies to organize research work along with providing the students of NITR a golden prospect to get exposed to real-world applications of their research in a uniquely designed building within vogue interior designs, central air conditioning system, underground parking system, lifts and state-of-the-art lab facility. The companies registered at TIIRC would provide an opportunity to students as well as professors to work in a collaborative environment to carry out R&D and translate laboratory experiments to marketable products. Limited manufacturing and marketing is also a prospect before moving the production to a large-scale factory. Housing the Training & Placement Centre, it has office spaces, a computer lab and various other facilities for carrying out training and recruitment activities. TIIRC has registered a few startups by NITR students in recent years which are namely the following:

Phoenix Robotix

Founded by Amiya Kumar Samantaray and being the first Electronic/Electrical Manufacturing startup of NITR, Phoenix has a very dedicated group of people who recently added a silver feather to their cap by being the finalists of Digital India Campaign and presenting their work in front of the President of India. It deals mainly in the field of robotics and automation.



Estinno

This group of students developed VORTEX: the world's smallest washing machine and got significant recognition for their work. Estinno is basically a product development company dedicated to transforming their client's dreams into actual products that are manufactural and marketable.

Ovotees

Last year in the second week of March the second youngest entrepreneurs in India and the youngest in the state of Odisha emerged from our institute. With the launch of 'Ovotees', OVO meaning 'Original Version Of'. They have dived into the textile market by providing personalised t-shirts and hoodies.

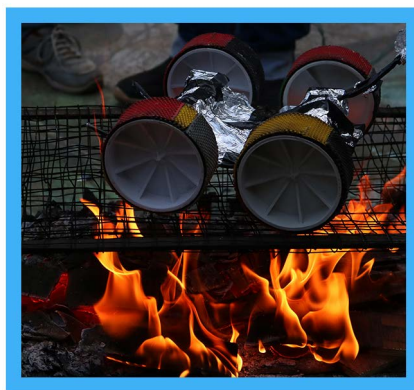


STUDENT LIFE

Life at NITR goes way beyond the rudimentary concepts taught in classrooms and laboratories. The institute offers excellent opportunities to the students to participate in recreational and creative activities through its Students' Activity Centre (SAC), which intends to serve as the nerve centre of all student activities in the campus. It aims to foster a well-balanced development of its members through excellence in extra-curricular activities along with their academic achievements. A number of satellite clubs carry out activities in affiliation with the SAC, the major activities being the Annual Technical and Cultural festivals. These flagship events attract participants from all over the country. O-NSA or Organization for Inter-NIT Student Activities represents the teamwork of all the 20 NITs towards the growth of cultural, technical, sports and other organs. It is involved in the overall organization of the Inter-NIT competitions, thus spreading the idea of cooperation and mutual harmony.



DJ at the Pro Nite



Death Race, a flagship event of Innovision



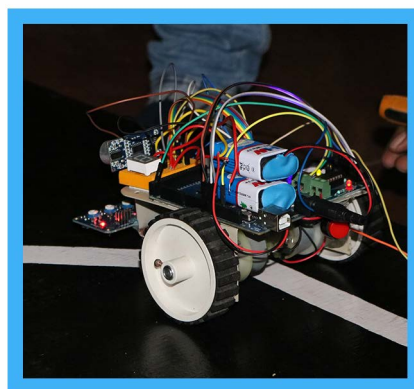
Celebrity Nite

INNOVISION

The annual techno-management festival of NIT Rourkela, Innovision is a summit of the theoretical and practical aspects of engineering along with management with an exposure on the latest trends and innovations. Attracting participants from all over the country, it hosts workshops, guest lectures conducted by the best in the industry and academia, robotics events, paper presentations, and various other events, all aimed at testing and enhancing the technical acumen of the students. From Pro shows to workshops, Innovision makes sure that the technical festival of NITR is the best.



Euphony Live by NITR's own band



Robot Demonstration



Art Exhibition



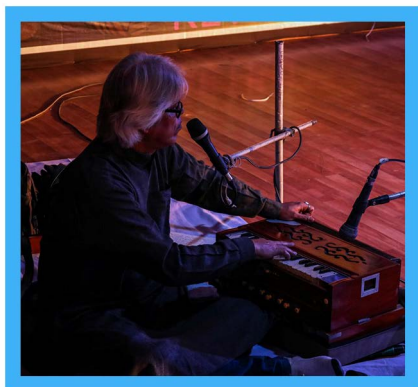
Underground Authority



KK at his live concert

NITRUTSAV

The Cultural Festival of the institute, NITRUTSAV has been a perennial feature of the city of Rourkela poised in its own unique way between the pedestals of industry and civilization. It's a celebration of the human spirit, thoughts and ideas. The thousands of people that are drawn in by some of the biggest celebrities and crowd pullers make Nitrutsav one of the biggest Cultural events in the eastern region. Celebrities invited include singers Pritam and his Metro Band, Kailash Kher, Kunal Ganjawala, KK, Sonu Nigam, Pakistani band Jal, Indo-Fusion Band Euphoria, Indipop band Aryans and a number of other Rock bands such as Pentagram, Underground Authority.



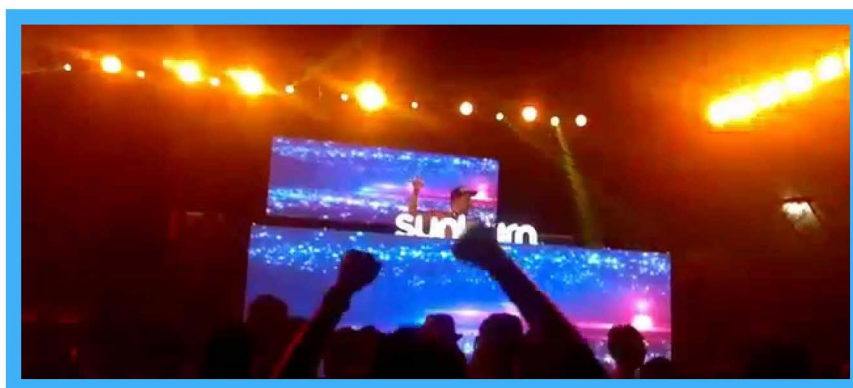
Muktub organised by NIT's own band Heartbeats



NU Fashionista



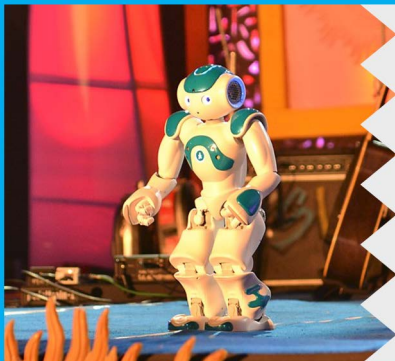
Art Exhibition



Goa's famous Sunburn festival brought to campus.

CLUB CULTURE

CIRCUITAL



There are many clubs in NITR to cater the needs of budding minds of computer science, electrical and electronics sectors like Cyborg, Spawn, Microsoft Campus Club, Plugged In, Team Tiburon and CodeHub. The Club for Automation and Robotic Control (Cyborg) is an independent entity to serve the interest of students of the institute in the field of automation design and robotic control. The Microsoft Club established by the Campus Connect Program of Microsoft India is a unique initiative to build better industry-student interface. The activities of the club aim to increase the awareness of the latest developments in the technological field. Spawn and CodeHub looks to improve the coding culture in Institute.

CREATIVES



It's often said that most creative minds are found in engineering colleges and for that we have clubs like Third Eye (Photography), Cinematics, Chitraang (Painting) and Design Tab. Third Eye is an amateur level Photography Club aimed at nurturing talent and setting standards in the art of photography. It is aimed at introducing the fundamental skills in photography mechanics. The cinematics club's ethos is all about having fun with videography and to provide an association of like-minded people to enjoy, share and advance their creative skills. Chitraang brings together the best of artists of the institute to decorate the campus. Their works include wall paintings in SAC, KMS etc. Design Tab was built to bring all designers under one roof.

DANCE, DRAMA AND MUSIC



Various student interests, hobbies and passions of the students are catered to by SAC. Aspiring musicians are provided with ample scope and musical instruments. Various student bands at NITR like Euphony, Heartbeats, Almost Honest and Holocaust light up the stage during various events and functions. Synergy and Mavericks are the two dance groups, which set the stage at NITR on fire. Together they formed SnM Crew which won the silver medal at Indian Hip Hop Championship. The performing-arts group conduct various street plays and productions to entertain the NITR crowd. Pantomime and RITVIC are two such clubs. Over the years, RITVIC has won many laurels throughout the country with their great acting skills.

QUIZZING



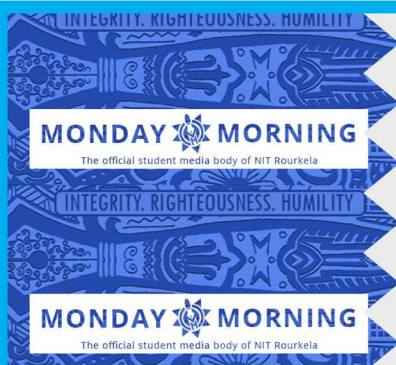
Inspired by Mastermind India and Bournvita Quiz Contest shows, Inquizzitive is the quiz club which conducts regular quizzing sessions for interested and aspiring quizzers. Quizzers from NITR have won in national level quizzing events at IIT Kharagpur, Symbiosys Institute of Business Management, Tata Crucible, Mettle Quiz and Mahindra Auto-Quotient. They also organise annual open quiz of NITR, Quirios.



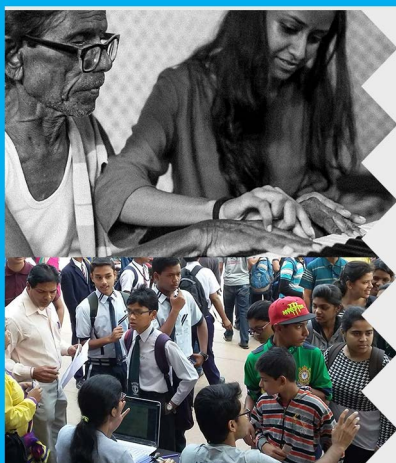
E-CELL (Entrepreneurship Cell) works to promote entrepreneurship in the region and also to provide incubation and funding through a venture capitalist to nurture budding ideas and aspiring entrepreneurs. The club organizes workshops, awareness camps etc. apart from its flagship event NES, National Entrepreneur Summit conducted annually.



ASME NIT Rourkela's HPVC Team, Blue Streak participated in the inaugural HPVC India, held earlier this year at IIT Delhi, and also proved its mettle the HPVC East, 2014, held in Florida, USA. ASME NIT Rourkela Chapter is also one of the most respected student sections in ASME SDOB India. Civil Engineering Students' Technical Club (CEST) works to sustain and nurture the enthusiasm of students of NIT Rourkela about Civil Engineering and facilitate their professional growth. This Club reinforces the knowledge attained during classes through interesting activities. The Students find themselves exposed to different areas of Civil Engineering and also engage in teamwork learning and helping others. The SAE collegiate club at NIT Rourkela, a student branch of SAE International, is promising to combine research, development, design, manufacture and utilization of vehicles which operate on land, water, air and space. The members indigenously design an All-Terrain Vehicle (ATV) and Formula Type Racing Vehicle annually and compete in BAJA SAE and Supra SAE respectively, both national level competitions along with conducting various workshops and design competitions.



Published every Monday, Monday Morning is the official institute weekly e-newsletter /media body which brings in the latest news, views and happenings from around the campus. It provides the perfect platform for interaction between the administration and the students, with regular interviews of Director, Deans and even the student representatives. Featured by Careers360 magazine, published by Outlook under the article 'Campus Journalism in India' and garnering more than 1.5 lakh unique visits from across the world in the academic year 2011-12, it moreover helps the alumni stay in touch with the latest happenings at their alma mater. Degree 361 is official magazine of NITR, which lets students showcase their writing, drawing, designing and photography skills.



To give is to receive.

AASRA is an absolutely non-profit organization with the sole objective of spreading smiles in the faces of poor children. The group members visit underprivileged social communities like orphanages, leprosy colonies and special care homes and carry out various humanitarian works.

The Rotaract and Leo clubs are immediate extrapolations of the parent organizations, Rotary and Lions Club International respectively, with a noble vision of universal service. These clubs work with a number of NGOs helping them out on fund-raising issues, in working effectively and in promoting the idea of humanitarian relief.

TRAINING AND PLACEMENT CENTRE

Training and Placement Centre is responsible for placements, training and internships at NIT Rourkela. The Placement Centre Head, the Placement Centre staff and the student representatives handle various crucial tasks in the office like reaching out to companies, scheduling, executing placement related activities and carrying out all official communication with recruiters and with students. The team strives to strike a match between recruiter expectations and student aspirations. The team of student Coordinators consists of the Placement Secretaries who coordinate the activities of each branch and ensure compliance with various Institute policies. The Placement Centre is well-equipped with excellent infrastructure to support every stage of the recruitment process.



FACILITIES

- * Fully computerized and air-conditioned office
- * Well-furnished auditorium for conducting pre-placement talks and analytical tests.
- * The Institute Guest House has conference rooms as well as facilities for Group Discussions and Personal Interviews.
- * Video conferencing facilities are available for conducting

PLACEMENT COMMITTEE

The Training and Placement Department of National Institute of Technology, Rourkela, headed by a senior faculty member, manages placement activities and keeps liaison with various industrial groups and research organizations. The department works in close coordination with a student placement committee comprising students chosen from various departments. It consists of 24 members of which 9 representatives from B.Tech, 8 from B.Tech and M.Tech Dual Degree, 3 from M.Tech, 2 from M.Sc. and 1 each from MBA and PhD.

PLACEMENT PROCEDURE



Invitation

The Training and Placement Centre sends invitations to companies and organisations along with relevant information who are subsequently asked to fill the Job Notification Form (JNF).

STEP
01

Pre-Placement Talk

The company may organise a Pre-Placement Talk (PPT) for interested and eligible (as per the criteria specified by the Company/ Organisation) students appearing for the recruitment process.

STEP
03

STEP
02

Slot Allocation

Placement Centre and Companies coordinate to fix a convenient date for recruitment procedure viz. tests and/or interviews after considering factors like student preferences, job profile, etc.

STEP
04

Result Declaration

The Company/Organisation is required to furnish the final list of selected students at the end of the assigned interview slot.



INTERNSHIPS AND TRAINING

- It is quite remarkable that National Institute of Technology, Rourkela has seen its budding engineers fare exceptionally well not only in Indian Universities but in Foreign Institutions as well.
- The Training and Placement Centre gives exposure and opportunity to the companies and the students by assisting them to conduct lecture talks, tests, competitions and interviews.
- It notifies students about excellent internship and research opportunities in India and abroad.
- Many of the industries do provide Pre-Placement Offers (PPOs) based on the performance of the students during the period of internship.

MAJOR SECTORS

R&D Organizations, Core Engineering firms, Banks, Consulting firms, FMCG, IT Services, Web Development, Sales and Marketing, Trading etc

Apart from universities of International repute many other students did their internships in major technological Institutes of India like IISC, Bangalore, ISI Kolkata, TIFR, BARC and various IITs. Students have also bagged internships at major industries like Microsoft, Goldman Sachs, Dell, Codenation, Texas Instruments, Ittiam Systems, STMicroelectronics, Intel, Amazon, Sankalp Semiconductors, Unisys, Cummins, Hero, Tata Steel, Tata Motors, L&T, Sterlite, IOCL, ONGC, BHEL, ARM Embedded Systems, Ericsson, Bell, MECON, DRDO, BEL, TCS, M&M, GE, ABB, Ariva to name a few.

Students take up summer internships to gain first-hand experience of the professional world, after second or third year of their academic programme. The duration varies between 8 to 10 weeks starting from May and extending till mid of July. The recruiting firms include Core Engineering Firms, Research Universities, Banks, Consulting and Analytics firms, FMCG majors and NGOs.

These internships prepare the candidates for their future.

Here are few companies where our students were offered internships:



OUR ESTEEMED RECRUITERS







STUDENT COORDINATORS

Name	Department	Email(@gmail.com)	Contact
BTech Coordinators			
Samratdeep Prasad	Biomedical	samratdeepprasad	9078069118
Ankita Das	Chemical	ankitadimpyl8	7684027914
Swayambodha Mohapatra	Computer Science	swayambodha	7504576532
Abyakta Patra	Electronics	patraabyakta	7504874705
Arun Kumar Das	Electrical	arun4atb	9090920633
Venkata Suneel	Industrial Design	venkatasuneel15081998	8500075038
Sourav Tripathy	Mechanical	tripathysourav4	9937237382
Satyajit Mahapatra	Metallurgy	satyajit.mahapatra123	8596009124
Sonal Sivam Biswal	Mining	sonalshivamrocks	787337980
Dual Degree Coordinators			
Robin Sahu	Civil	robinsahu1996.rs	7873129789
Athul TR	Chemical	athulmvk1995	7077105483
B Devendra Nadh	Ceramic	bdevendranadh7989	7077109908
Kumar Shaswat	Computer Science	ku.shaswat1996	8984815409
Raghavan Suraj	Electronics	raghavansuraj7	7077605577
Arnab Bose	Electrical	arnabbose1067	7064248072
Bismay Kumar Sahoo	Metallurgy	bismayk97	9778097777
Suryajyoti Nanda	Mining	nsuryajyoti	9439622541
MTech Coordinators			
Sumit Nagdeo	Computer Science	kumarnagdeos	9589338224
Pavani Atchula Kumari	Industrial Design	pavani6543	7893991232
Mahesh Kolle	Metallurgy	kollemaheshkumar	8975723340
MSc Coordinators			
Saileja Dash	Mathematics	sailejadash	8763716518
MBA Coordinator			
Nischit Mishra	MBA	nischitnkd	8456808555
PhD Coordinator			
Rajashree Samantaray	Metallurgy	rubun9	8521443802



Arnab Bose

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Email: arnabbose1067@gmail.com

Bismay Kumar Sahoo

Mobile: 9778097777
Email: bismayk97@gmail.com

Swayambodha Mohapatra

Mobile: 7504576532
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