

# NIT Raipur at a Glance



## ➤ About the Institute

National Institute of Technology (NIT) Raipur, formerly known as Government Engineering College (GEC) Raipur, is situated in the capital city of Chhattisgarh state. The institute has established its unique identity for the development of high quality human and knowledge resource in diverse area of technology. It was declared as 'National Institute of Technology' by the Government of India on 1st December 2005 and then an 'Institute of National Importance' in May 2007 vide National Institute of Technology Act 2007. With over six decades of glorious history as a premier technical education institution in India, NIT Raipur now offers 12 UG and 11 PG programmes. In addition to the UG and PG programmes, NIT Raipur also offers Ph.D. programme in 18 disciplines of science and technology.

## ➤ Under Graduate Programmes (B.Tech. / B.Arch.)

- Bachelor of Architecture
- Bio Technology
- Bio Medical Engineering
- Chemical Engineering
- Civil Engineering
- Computer Science & Engineering
- Electrical Engineering
- Electronics & Communication Engineering
- Information Technology
- Mechanical Engineering
- Metallurgical and Materials Engineering
- Mining Engineering

## ➤ Post Graduate Programmes (M.Tech. / MCA)

- Applied Geology - M. Tech. (Applied Geology)
- Civil - Structural Engineering  
- Water Resource Development & Irrigation Engg.
- Chemical - Chemical Engineering
- Electrical - Power System and Control
- E&TC - VLSI & Embedded Systems
- IT - Information Technology
- Mechanical - Thermal Engineering  
- Machine Design  
- Industrial Engineering & Management
- MCA - Master in Computer Applications

## ➤ NBA Accreditation

Following programmes are presently accredited by National Board of Accreditation.

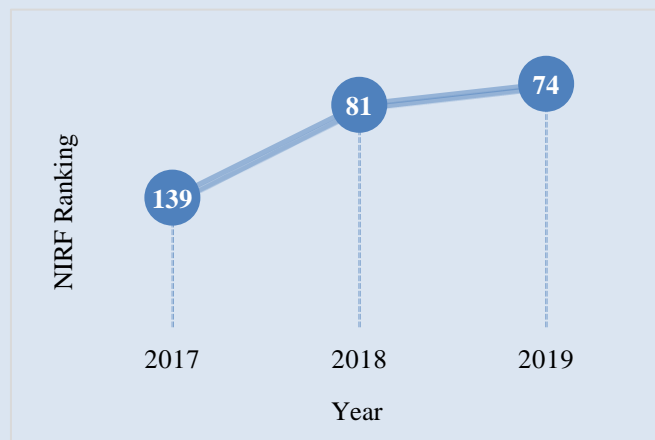
### UG Programmes:

- Civil Engineering
- Chemical Engineering
- Mechanical Engineering

### PG Programmes:

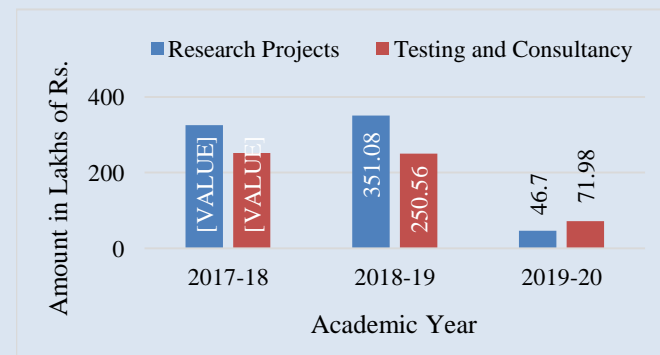
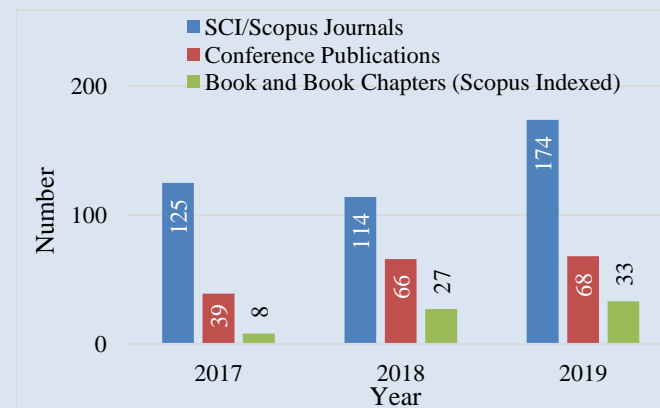
- Machine Design
- Thermal Engineering
- Industrial Engineering and Management
- Structural Engineering

## ➤ NIRF Ranking



## ➤ Research & Consultancy

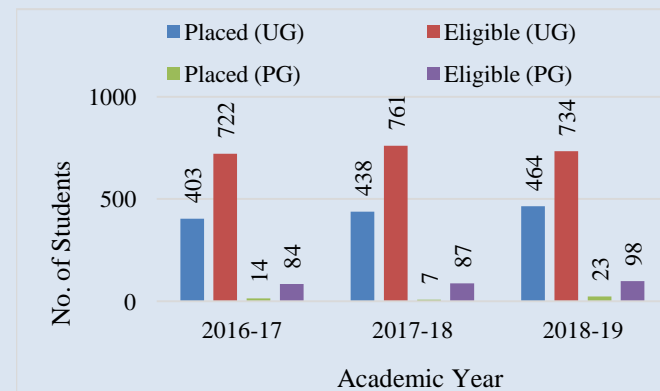
NIT Raipur is actively involved in testing and consultancy activities for industries in Chhattisgarh region. It is also speedily progressing in research in diverse areas.



## ➤ Placement Scenario

Apart from higher studies and entrepreneurship, significant number of students are getting selected in campus placements of reputed companies.

Academic Year		2016-17	2017-18	2018-19
Median Salary (in Lakhs of Rs.)	UG	6.00	6.00	7.85
	PG	4.00	6.00	6.05



## State-of-Art Testing Facilities

Applied Geology	Advanced Microscopes, Instruments for Ground water quality analysis and Hydrogeological investigation, Digital Schmidt Hammer, etc.
Biomedical	Bio-Signal Data Acquisition System, Wireless EMG system, 3D printing of polymeric materials, etc.
Biotechnology	High Performance Liquid Chromatography, Software: Schrodinger Glide and Prime
Chemical Engg.	Analytical Instrument, Various product testing facilities
Chemistry, Physics	FT-IR, LCR Meter, Flourimetry, UV-Visible & Fluorescence Spectrophotometer, TLD reader etc.
Civil	Universal Testing Machine, Plate Load test, Atomic Absorption Spectrophotometer, etc.
Electrical	Induction Motor Test Setup, Welding Transformer Test Setup, Energy Meter Testing Kit, HV Transformer& Cable testing, etc.
Electronics & Communication	Testing of Microwave, Components and in-house single sided PCB, Design & verification of Signal and VERILOG and VHDL based digital circuit, etc.
Mechanical	Ball Tester, Stress freezing oven, Solar thermal training kit, Smoke meter, Pyranometer, etc.
Metallurgical	XRD, SEM, Vacuum Arc Melting Unit, Potentiostat, Optical Microscopy, etc.
Mining	Mine surveying, Measurement of vibration, chemical composition, dust exposure, etc.

### ➤ Innovations & Entrepreneurship

Innovation Cell and Entrepreneurship Cells are running under the ambit of **Career Development Cell (CDC)** of NIT Raipur along with Training & Placement. **Innovation Cell** aims to inculcate the spirit of innovation and entrepreneurship amongst the students, encourage and support innovations through guidance, mentorship and support. The **Entrepreneurship Cell** manifests the essence of entrepreneurship in the passionate youngsters who have the zeal to pursue entrepreneurship and advocate this vehement enthusiasm in the generations to come. **Makerspace** at NIT Raipur is set up on the theme of Open Community Technology Development Culture to promote mainly frugal innovations. It is also set up to provide working ecosystem to prospective entrepreneurs of NIT Raipur. NIT Raipur has provided necessary financial support to budding innovators and entrepreneurs by providing seed grant of Rs. 25,000/- and acceleration grant of Rs. 50,000/- respectively.

#### *Major Achievements:*

1. Formation of MHRD Institute Innovation Council & CII Innovation Council.
2. 1<sup>st</sup> position in the Institutions Innovation Council (IIC) at the central zone for 2018-19.
3. Two companies registered through the acceleration grant awarded by NIT Raipur during the year 2019-20.

### ➤ Infrastructure & Facilities

**Central Computer Center (CCC)** is the nodal agency and engine for propelling ICT Infrastructure Development, Maintenance and Growth at NIT Raipur. CCC is also engaged in Software Development Works towards various internal application requirements of the Institute. Major facilities provided by CCC are:

- 400 seater Computer Centre (approx. 2300 sq.mt)
- LAN architecture having optical backbone of 10 GBPS with fault tolerant and fail-safe features.
- Advanced Computing Facility (ACF), which is presently equipped with a High Performance Computing (HPC) Cluster having a performance of 39.5 TFLOPS. Performance wise. **This HPC is ranked 32 amongst all HPCs in India.**
- License Servers for software, viz., MATLAB, LabView, MultiSim, SPSS, Anulo and Library Services.

- MIS application servers, database servers and result portals are deployed and maintained.
- **Language Lab;** Seating Capacity- 55 with desktops well-equipped with headphone, mike and E-Prime software.

#### **Central Library Facilities:**

- Collection of more than 1.25 lakh print books and subscription of over 180 printed periodical, magazines and journals.
- E-books 19,988 and 15,000+ purchased and subscribed respectively in the year 2019-20.
- Fully automated library with exclusive server through LibSys7-Library management software.
- Rich collection of more than 5000 e-journals through 15 online databases and “**EBSCO Discovery**” service to access all library e-resources through a single platform.
- “**RemoteX**” access facility for faculty members residing outside the campus to access e-resources.
- Availability of licensed Turnitin and URKUND anti plagiarism software.
- Installation of RFID in reading room.

#### **Sports Facilities:**

- Gymnasium of about 2,000 sq.ft. equipped with modern machines.
- Outdoor games Courts, viz., Basket Ball Court, Badminton Court, Volley Ball Court, Football ground, Handball ground, Cricket ground.
- Each hostel has badminton courts, table tennis tables and indoor games.

**As on date, more than 15,000 alumni of NIT Raipur are occupying positions of repute in different organizations in India and abroad.**