

Department of Computer Applications

National Institute of Technology, Raipur

G.E. Road, Chhattisgarh, 492101, India

Year of Establishment : Year 1986

Intake : Post Graduate Program (MCA) – 110 and Ph.D- No intake is fixed.

Admission:

- Through NIMCET (National Institutes Master of Computer Applications Entrance Test) conduct every year by one of participating NITs.
- Induction to Ph. D program depends on the number of candidates a guide is having.

Degree Offered :

- Post Graduate Program-Master of Computer Applications (MCA).
- Research Program-Ph.D. in Computer Applications.

DEPARTMENT OF COMPUTER APPLICATIONS

Department of Computer Applications was established in 1986 in the erstwhile Government Engineering College Raipur with an intake of 30 Master of Computer Applications (MCA) students. Later on, in the year 2000, after the formation of the state of Chhattisgarh, the intake increased to 60 students.

In 2005 on the upgradation of the Institute, the Department is now known as the Department of Computer Applications, National Institute of Technology Raipur.

Induction to MCA Program is through a national-level entrance examination, i.e., NIMCET (*National Institutes Master of Computer Applications Entrance Test*), conducted by one of the participating NITs. Presently there are 09 participating NITs in this entrance test. This provides an opportunity for all the participants of entire India to join the MCA Program. Currently, the NIT Raipur intakes 110 students for the MCA program. In the year 2011, the Department started Ph. D. Research Program in the field of Computer Applications.

The Department of Computer Applications is enriched with highly qualified faculties and standard laboratory and classroom facilities. The department is always keen to provide the best education that helps develop the solid technical knowledge students need to excel in computer applications.

Also, the target is to provide modern research facilities to generate knowledge and develop technology in the ambitious point of computer applications..



Our Mission

Department of Computer Applications at the National Institute of Technology, Raipur, provides quality education through the best higher education programs in Computer Applications to meet the needs of professional associations, communities, and the nation and provides an enabling environment for entrepreneurs, scientists, academics, and research.



VISION



- To provide the best education that helps develop the solid technical knowledge students need to excel in computer applications.
- Development of professionals who provide leadership and exemplary technical education and services to improve the lives of individuals in a world of change and complex societies.
- To provide modern research facilities to generate knowledge and develop technology in the driving force of computer applications.
- To provide excellent research and development facilities to take up Ph.D. programmes and research projects.
- To develop effective teaching and learning skills and state-of-the-art research potential of the faculty.



M

ASTER OF COMPUTER APPLICATIONS (MCA)

Program includes significant subjects in computer science, such as Data structure, Algorithms, Operating Systems, Database Management Systems, Computer Architecture, Compiler Design, and Software Engineering.

The department also provides advanced subjects like Data Science, Cloud Computing, Mobile Computing, Distributed Computing, Parallel Processing, Advanced-Data Mining, Swarm Intelligence, Pattern Recognition, and Network Security.

The Laboratory program comprises various programming languages such as C, C++, JAVA, Python, and open-SQL. To impart knowledge of reasoning, and analytical ability for various competitive examinations, the course includes Mathematical Foundation of Computer Science, Statistical Computing, and Computer-Oriented Numerical Analysis.

The course also includes courses for the comprehensive development of student disciplines, such as professional communication in English, oral and written communication, personality development practice and training, interview preparation, and group discussion.

This combination of subjects gives them a good and excellent base for any competitive environment. It also gives them more placement opportunities on college campuses.



KEY POINTS

Why join NIT Raipur?

- The Department of Computer Applications was established in 1986 and still it maintains its legacy towards Learning, Teaching and Research.
- The Department is always ready to take up opportunities for Research, Development & Innovation.
- The Department believe best way to learn is in doing, i.e., "**learning by doing**".
- With this view, we encourage our students to engage in classroom discussions, encourage them to carry out exciting projects and reward them for appreciating their efforts.

Faculty Members

- The Department is enriched with highly qualified faculty members who are engaged in teaching and research in the area of AI & Machine Learning, Algorithms, Cloud/Fog Computing, Parallel/Distributed Computing, Network securities, Internet of Things, Mobile Computing, etc.



KEY POINTS

Why join NIT Raipur?

- The faculties provides tutorial classes that play an essential role in a proper understanding of the subject.
- Faculties set tutorials to cover all the topics and provide a soft/hard copy of the class notes after the class so that students can fully concentrate on the course to gain more in-depth knowledge.
- Faculties encourage students for communication and co-operation with each other.
- The department organizes seminars and colloquiums so that students will have an excellent opportunity to develop their skills.
- The Department often think in a contemplative way about various issues of practical importance

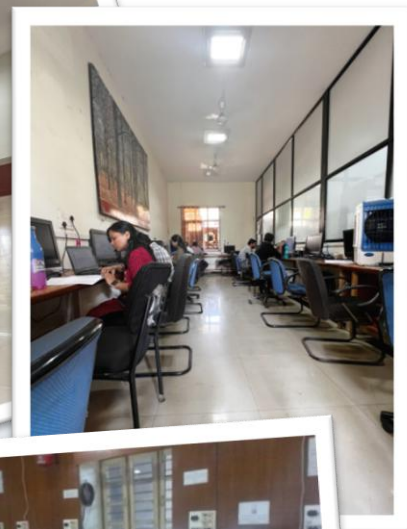


KEY POINTS

Why join NIT Raipur?

Class rooms and Laboratories

- The Department has three classrooms (S12, S14 and S17) and two laboratories (Lab-1, Lab-2).
- For research, we have two laboratories IoT Lab, and research scholar Lab.
- Each classroom is equipped with Black/White board with Multimedia Projection.





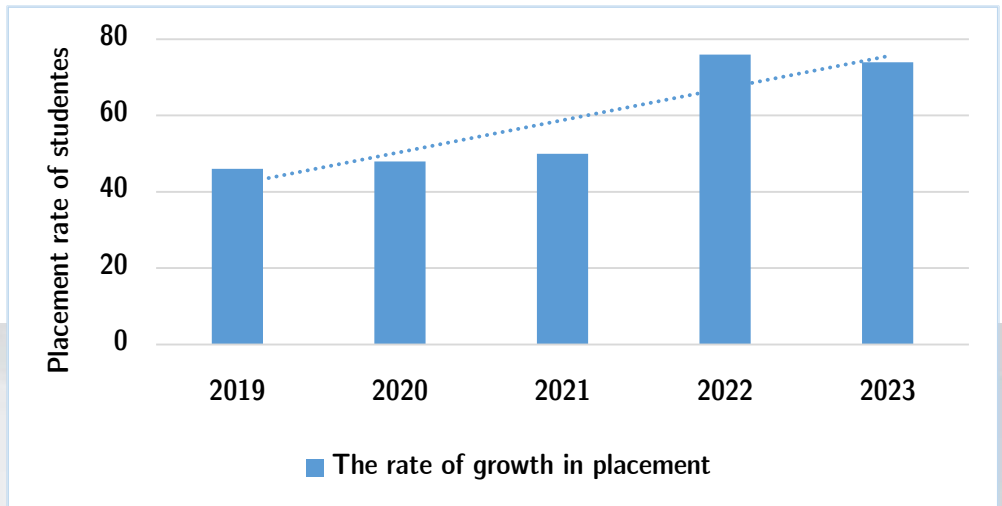
The Centre for Career Development (CCD) of the Institute centrally handles all aspects of campus placements for the graduating students of all Departments. CCD is well-equipped with excellent infrastructure to support every stage of the placement process. CCD staff members assist in arranging Pre-Placement Talks, Written Tests, Group Discussions, Interviews, etc., as per the requirements of the Organizations.

- A dedicated 'Career Development Centre' for all round development of students, making them industry ready.
- Dedicated 'Innovation Cell' and 'Entrepreneurship Cell' for students to inculcate spirit of creativity, innovation and entrepreneurship.
- Students undergoing internship / training at leading companies, PSUs and premier technical institutions.
- Up-dated and industry oriented academic curriculum.
- Student research / projects on real-life industry problems under the guidance of experienced and erudite faculty members.
- Learning with tech-stalwarts and subject experts in real time through National Knowledge Network.
- Students have ample industrial exposure owing to geographical location.





- Our MCA students are placed in many leading IT companies like Google, Microsoft, Infosys, IBM, TCS, Amazon, Genpact, Deloitte, and many more.
- The overall placement rate 2022 and 2023 is increased by almost double with compared to 2021



ACHIEVEMENTS



Our MCA students and Ph.D. scholars participate in many competitive activities and received many awards. like,

- Became **Overall Champion** in the annual sports-SAMAR-2022-23, organized by NIT Raipur.
- Participated in Annual Fest- Eclectika-2023, NIT Raipur, and received the **Title of Eclectika**.
- Our Ph.D. Scholars received **Best Research Paper** and **Best Presentation awards** in different Conferences and Research Conclaves organized by various Institutes, etc.

