

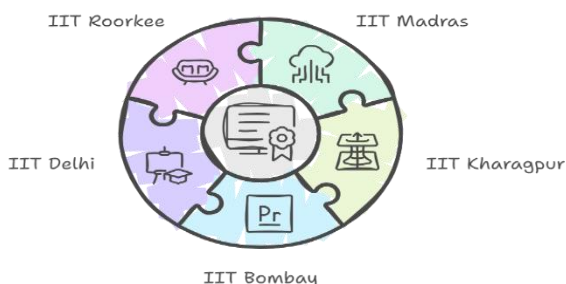
Career Compass

November 2024



Non-technical undergraduate courses – Indian Institute of Technology

Overview of IIT Academic Programs



From The Desk of The Director Principal – " The landscape of higher education is evolving, and our premier technical institutions are leading the way. IITs are now offering undergraduate programs in design, economics, management, and humanities, breaking traditional boundaries. This innovative approach ensures our students develop versatile skills crucial for tomorrow's dynamic global environment, creating well-rounded professionals equipped to tackle complex challenges across diverse fields".

From The Vice Principal – " IITs are redefining educational excellence by introducing non-technical undergraduate courses. These programs bridge the gap between technical and social sciences, providing students with a holistic learning experience. By offering subjects like design, economics, and management, IITs are preparing students for a world that demands integrated thinking and multidisciplinary expertise".

From The Career Counsellor - As a career counsellor, I have witnessed a transformative shift in higher education. The IITs' introduction of non-technical undergraduate programs isn't just an academic innovation – it's a response to the changing professional landscape. These programs offer students a strategic advantage: the ability to combine technical analytical skills with creative and humanistic perspectives.

IIT Programs

Bachelor of Science

Offers specialized programs in disciplines like Mathematics, Physics, and Chemistry.

Integrated Programs

Combines undergraduate and postgraduate studies for advanced scientific education.

Bachelor of Design

Focuses on design principles, creativity, and innovation across various IITs.

Bachelor of Business Administration

Provides management education with a focus on business principles.



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In recent years, there has been a growing misconception that the Indian Institutes of Technology (IITs) are exclusively focused on engineering and technology-related education. However, this is far from the truth. IITs offer a diverse range of non-technical undergraduate courses that cater to various interests and career paths beyond traditional engineering disciplines.

1. Bachelor of Design (B.Des.) – 4years

Offered By: **IIT Bombay, IIT Guwahati, IIT Hyderabad, and IIT Delhi.**

Entrance Exam: UCEED (Undergraduate Common Entrance Exam for Design).

2. Bachelor of Architecture (B Arch)

Offered by IIT Roorkee and IIT Kharagpur

Entrance exam:

JEE Main, JEE Advanced, and the Architecture Aptitude Test (AAT)

2. IIT KANPUR

Offered By: IIT Kanpur

BACHELOR OF SCIENCE (B.S.)

4 Year degree programme in:

- Chemistry
- Earth Sciences
- Economics
- Mathematics and Scientific Computing
- Physics
- Statistics and Data Science

Entrance Exam: JEE-Advanced

IIT KHARGPUR

IIT Kharagpur admits students to its BSc courses based on marks obtained in JEE Main followed by JEE Advanced

Courses Offered

B.Sc. in Economics – 4 yrs

BSc in Mathematics and Computing – 4yrs

Integrated B.Sc. (Hons.) + M.Sc. in Physics – 5 yrs

Integrated B.Sc. (Hons.)+M.Sc. Economics – 5 yrs

B.Sc. in Physics – 4 yrs

B.Sc. in Applied Geology – 4yrs

B.Sc. in Chemistry- 4 yrs

B.Sc. in Exploration Geophysics – 4yrs

IIT BOMBAY

Departments offering B.S. Programme

Department of Chemistry

Department of Economics

Department of Mathematics

- IIT Bombay offers conversion of 4 yr. UG programme (B.S.) to 5 yr. Dual Degree programme (e.g. B.S. in Mathematics and M.Sc. Mathematics). The provision is available in Chemistry and Mathematics departments.
- IIT Bombay also offers conversion of 4 yr. UG programme to 5 yr. Inter Disciplinary Dual Degree Programmes where a student can earn B.S. degree in one department and M.Tech./ M.Sc./ MBA Degree in another department e.g. B.S. Degree in the parent department (e.g. Mathematics) and M.Tech. Degree in the host department (e.g. Aerospace Engineering).

IIT MADRAS

BSc at IIT Madras - Clear JEE Mains exam. But for those candidates who are willing to pursue a PG Integrated program such as BSc - MSc, then in that case it is required to clear JEE Mains and JEE Advanced.

BSc in Medical Sciences and Engineering, 4 yrs

BSc in Biological Science, 4yrs

BSc in Electronic Systems 4 yrs

BSc in Programming and Data Science - 3years

BS in Data Science and Applications – 4years

In conclusion, the Indian Institutes of Technology are not just centers for technical education; they are also hubs for diverse academic pursuits that prepare students for various professional fields. By embracing this diversity in education, we can foster a more inclusive understanding of what it means to study at an IIT.

Events in November 2024



Resume Building Session for Grade XI Students

On November 29th, Grade XI students transformed their career prospects during a dynamic resume-building workshop led by Sanandi Sachdeva from Jaipuria Institute of Management. Ms. Sachdeva revealed the secret sauce of standout resumes: strategic personalization. Students learned to showcase their unique skills by tailoring documents to specific opportunities, turning academic experiences into compelling professional narratives.

The session went beyond writing—it was about personal branding. By highlighting internships, volunteer work, and extracurricular activities, students discovered how every experience can become a powerful career credential. Energized and empowered, our students now see their resumes as passports to future success.

James Cook University Singapore, established in 2003, holds the distinction of being the only overseas institution with full university status in Singapore. As a branch campus of James Cook University, Australia, it brings the expertise and quality of a renowned public research university to the Asian education landscape. The session provided comprehensive information on the range of undergraduate programs with flexible study modes and durations at JCU.

The Workshop held on 21st Nov 2024, organized by James Cook University (JCU) Singapore also brought together counselling professionals from various prestigious educational institutions across the Delhi-NCR region. The workshop provided a platform for professional development and collaborative learning in the field of student counselling and support services.

