



Indian Institute of Technology Bhilai
(IIT Bhilai)

Executive M.Tech Data Science and Data Analytics

Type

Executive Program

Mode

Online

Duration

2 Years

Total fees

₹ 411,000

Indian Institute of Technology Bhilai (IIT Bhilai)

Established in 2016 under the Ministry of Education, Indian Institute of Technology Bhilai is one of India's emerging IITs, rapidly building a reputation for academic excellence, research focus, and industry relevance. Located at its permanent campus in Kutelabhata, IIT Bhilai is designed as a modern, interdisciplinary institution where engineering, technology, and applied research converge to solve real-world challenges. At IIT Bhilai, education goes beyond concepts. It is built around application and innovation to operate in complex, evolving industries with confidence.

Executive M.Tech Data Science and Data Analytics

Highlights

- ◆ Earn an Executive M.Tech degree in Data Science & Data Analytics from IIT Bhilai.

- ◆ Build expertise in machine learning, big data technologies, statistical modelling and data visualisation.

- ◆ Choose from specialised electives in deep learning, NLP, computer vision, forecasting and business analytics.

- ◆ Apply learning through a 12-credit capstone project focused on real-world data challenges.

- ◆ Benefit from flexible online learning, multiple exit options and a pathway to regular M.Tech equivalency.

Learning outcomes

- ◆ Apply data preprocessing, statistical analysis and modelling techniques to complex datasets.
- ◆ Develop machine learning and advanced analytics solutions for business and scientific applications.
- ◆ Design scalable big data systems for efficient data storage, processing and analysis.
- ◆ Address data privacy, governance, compliance and responsible AI considerations.
- ◆ Communicate analytical insights and recommendations effectively to technical and business stakeholders.

Eligibility Criteria

Minimum 2 years of relevant experience within the preceding 3 Years*.

Should have B.Tech. / B.E. / B.Sc. in relevant field (minimum 4-year program) / M.S. or M.Sc. in relevant field (minimum 2-year program) / M.C.A. (minimum 2-year program). For the candidates applying based on the M.Sc./M.S./M.C.A. degree, the undergraduate degree must be in a science or engineering field.

In the qualifying degree, at least 55% marks or a CGPA/CPI equivalent to 55% marks. In case the candidate belongs to the SC, ST, or Persons with Disability (PwD) category, this is relaxed to 50% marks or a CGPA/CPI equivalent to 50% marks. To be eligible to apply for equivalency after the third semester, the candidate must have scored the minimum marks in the qualifying degree as specified in the eligibility criteria of the regular M.Tech. program of IIT Bhilai. *To be computed as per the last day for application submission of this round.

Eligibility for PhD: Executive M.Tech. degree will be considered eligible for PhD admissions.

Other MEQs will remain as per the institute norms.

Program-specific criteria for Ex. M.Tech. admissions: Relevant Experience -Industrial or Teaching experience only. Relevant field for the qualifying degree- A. M.Sc./M.S. (2 years): ME / EE / ECE / CS / MT / PI / AE / IN B. B.Sc. (4 years): ME / EE / ECE / CS / MT / PI / AE / IN



Curriculum Overview (continued)

Semester I (3 subjects)

- ◆ Introduction to Machine Learning
 - ◆ Programming for Data Science and Data Analytics
 - ◆ Mathematics for Data Science and Data Analytics
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Semester II (3 subjects)

- ◆ Big Data Technologies
 - ◆ Elective in Advanced Analytics
 - ◆ Elective in Machine Learning
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Semester III (3 subjects)

- ◆ Expertise-Oriented Electives
 - ◆ Elective-4 (Any)
 - ◆ Elective-4 (Any)
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Semester IV (1 subject)

- ◆ Capstone Project OR Thesis
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Semester V (1 subject)

- ◆ Thesis



Curriculum Overview (continued)

Elective in Advanced Analytics (Semester 2/3) (4 subjects)

- ◆ Text Mining and Natural Language Processing
 - ◆ Time Series Analysis and Forecasting
 - ◆ Network Data Analytics
 - ◆ Data Analytics in the Cloud
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Elective in Machine Learning (Semester 2/3) (3 subjects)

- ◆ Deep Learning
 - ◆ Computer Vision
 - ◆ Reinforcement Learning
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Expertise-Oriented Electives (Semester 3/4) (5 subjects)

- ◆ Business Intelligence and Analytics
- ◆ Information Security
- ◆ Data Governance and Compliance
- ◆ Advanced Data Visualization Techniques
- ◆ Data-Driven Decision Making

Fee Structure

Fee heads	Sem 1	Sem 2	Sem 3	Sem 4	Total
Application Fee	₹ 5,000	—	—	—	₹ 5,000
Admission Fee	₹ 101,500	₹ 101,500	₹ 101,500	₹ 101,500	₹ 406,000
Total	₹ 106,500	₹ 101,500	₹ 101,500	₹ 101,500	₹ 411,000