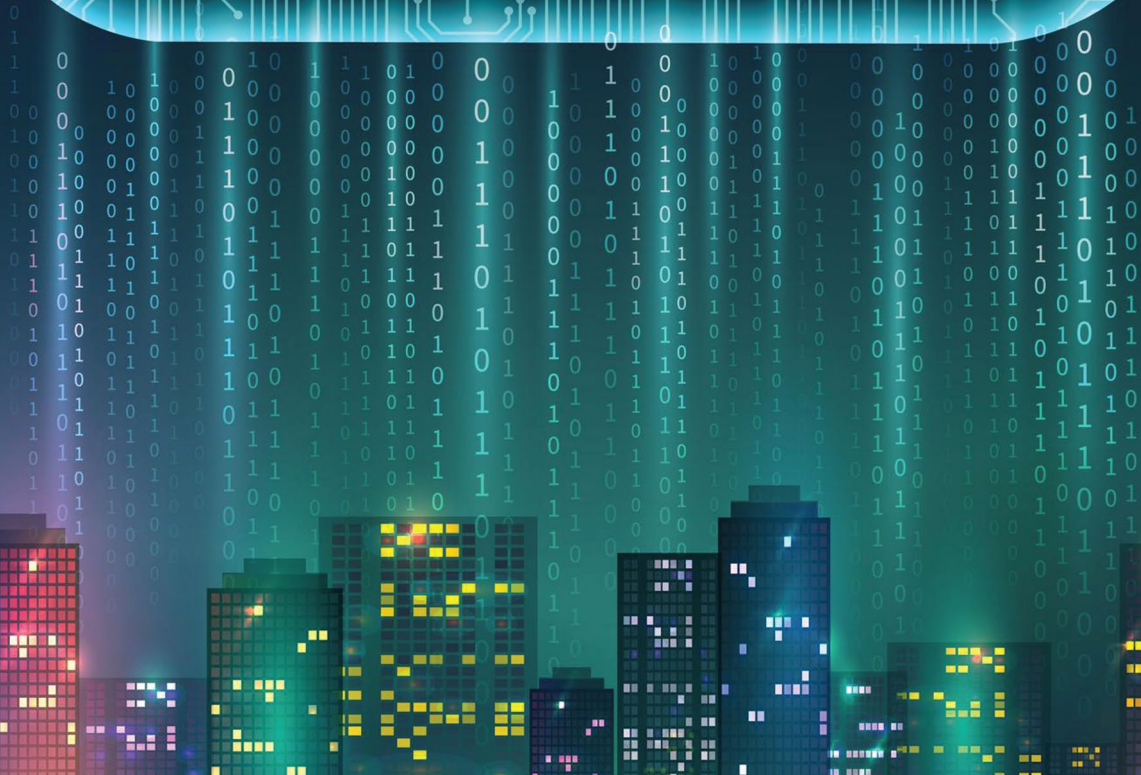




Executive MTech IN Cloud and Emerging Technologies



2 Years | Online Immersive Sessions | Graduate from an IIT

WHY UPSKILL FROM IIT BHILAI?

Indian Institute of Technology (IIT) Bhilai was established in the state of Chhattisgarh by the Ministry of Education in the year 2016.

IIT Bhilai is presently housed in its permanent campus at Kutelabhata, Bhilai, Chhattisgarh.

At IIT Bhilai, we understand the demands of the dynamic corporate landscape, and our Executive MTech programs are meticulously crafted to provide a seamless blend of academic excellence and real-world applicability. Whether you aspire to advance in your current role, switch career paths, or stay ahead of industry trends, our Executive MTech courses offer the strategic edge you need to thrive in a competitive landscape.





Program Overview

The Cloud and Emerging Technologies Executive Program is a forward-focused course designed to equip professionals with the expertise to navigate and lead in the rapidly evolving tech landscape. This program provides in-depth knowledge of cloud computing fundamentals, architecture, and deployment models, along with insights into emerging technologies such as blockchain, Internet of Things (IoT), quantum computing, and edge computing. Participants will gain hands-on experience with cloud platforms, understand the principles of scalability and security, and explore how emerging technologies integrate with cloud ecosystems to drive innovation.

Who Can Apply?

- Min 2 years of Experience within preceding 5 Years
- Should have B.Tech/ BE/ M.Tech/ MSc (In Relevant Field- 4 Semester Program) / MCA (4 Semester Program) / MS Degree (min. 4 Semester Program).
- In the qualifying degree at least 55 percent marks or equivalent 5.5 CGPA/CPI must be there. In case of the candidate belonging to SC, ST, or Persons with Disability (PwD) category, this is relaxed to 50% or equivalent 5.0 CGPA/CPI. For MCA/MSC passed graduates, the percentage score of MCA/MSC would be considered. For BE/BTech Engineering graduates without PG specialization, the percentage score of the undergraduate degree would be considered. For a post graduation in the Engineering field of study, PG score qualification can be considered.
- Selection process will be scheduled post counseling & application process, depending on the number of eligible applications as per seat availability for the program. This entire process will be online.

PROGRAMME OBJECTIVES

To develop a strong foundation in cloud computing fundamentals, including architecture, networking, and virtualization.

To gain expertise in advanced cloud architecture for designing scalable, secure, and cost-efficient solutions.

To acquire hands-on skills in programming for cloud and distributed systems, enhancing the ability to create cloud-native applications.

To master principles of cloud security and compliance for robust and reliable operations.

To explore emerging technologies like Blockchain, IoT, AR/VR, and Quantum Computing through specialized electives.

To integrate advanced technologies with cloud ecosystems, driving innovation in modern applications.

To learn multi-cloud strategies and operations for effective cloud resource management.

To engage in project-based learning, including minor, major, and capstone projects, for real-world application of skills.

To enhance expertise in digital transformation strategies, enabling effective adoption of emerging tech in organizations.

To experience flexible online learning with expert faculty guidance, combining live sessions and self-paced study.





PROGRAMME HIGHLIGHTS

Comprehensive Industry-Aligned Curriculum

Learn the latest in data science and analytics, including machine learning, big data technologies, and predictive modeling, ensuring relevance to modern industry demands.

Flexible Online Learning for Professionals

The fully online mode allows you to balance your work commitments while advancing your expertise, with live sessions and self-paced study options.

Expert Faculty and Industry Mentors

Gain insights from IIT Bhilai's distinguished faculty and experienced industry professionals, combining academic excellence with real-world expertise.

Prestige

Certification from one of India's most renowned institutions, boosting your professional credentials.

Career-Focused Outcomes

Equip yourself with in-demand data science skills and earn an IIT Bhilai certification, giving you a competitive edge and unlocking new career opportunities in the data-driven economy.

Virtual Instructor-Led Training

Learn through Virtual Instructor-Led Training (VILT)



CORE LEARNING OUTCOMES

Strong Understanding of Cloud Fundamentals

Develop a solid foundation in cloud computing concepts, networking, and virtualization, enabling participants to design and manage cloud-based solutions effectively.

Proficiency in Advanced Cloud Architecture

Gain expertise in building scalable, secure, and cost-efficient cloud architectures tailored to diverse business needs.

Hands-On Skills in Programming for Cloud

Learn programming techniques for cloud and distributed systems, enhancing the ability to develop, deploy, and optimize cloud-native applications.

Mastery in Cloud Security and Compliance

Understand critical principles of cloud security, data privacy, and regulatory compliance to ensure secure and reliable cloud operations.

Specialization in Cloud and Emerging Technologies

Explore advanced electives such as Multi-Cloud Strategy, DevOps, or Quantum Computing to customize expertise and stay ahead in technology trends.

Integration of Emerging Technologies with Cloud

Acquire skills to integrate emerging technologies like Blockchain, IoT, and AR/VR into cloud ecosystems for innovative applications.

Strategic Decision-Making with Digital Transformation

Learn to develop and execute strategies for cloud adoption, multi-cloud operations, and emerging tech integration to drive organizational innovation.



PROGRAM STRUCTURE

Sem	Course Code	Course Name	L-T-P-C	Credits	Course Category
I	CT601	Foundations of Cloud Computing	3-0-0-3	3	Core
I	CT602	Networking and Virtualization Essentials	3-0-0-3	3	Core
I	CT603	Advanced Cloud Architecture	3-0-0-3	3	Core
II	CT604	Programming for Cloud and Distributed Systems	3-0-0-3	3	Core
II	CT605	Cloud Security and Compliance	3-0-0-3	3	Core
II	CT6XX	Elective 1 (Cloud)	3-0-0-3	3	Elective
II	CT700	Capstone Project	0-0-8-4	4	Project (P)
III	CT6XX	Elective 2 (Emerging Technologies)	3-0-0-3	3	Elective
III	CT606	Minor Project	0-0-4-2	2	Project
III	CT6XX	Elective 3 -(any group)	4-0-0-4	4	Elective
IV	CT607	Major Project	0-0-12-6	6	Project
IV	CT6XX	Elective 4 -(any group)	3-0-0-3	3	Elective
		Campus immersion program / Elective	0-1-6-4	4	

Category	Course Code	Elective Courses	L-T-P-C	Credits
Cloud Electives	CT6XX	Cloud Infrastructure Management	3-0-0-3	3
	CT6XX	Multi-Cloud Strategy and Operations	3-0-0-3	3
	CT6XX	Cloud-Native Development	4-0-0-4	4
	CT6XX	DevOps and Continuous Integration	4-0-0-4	4
Emerging Tech Electives	CT6XX	Blockchain for Enterprises	3-0-0-3	3
	CT6XX	Internet of Things (IoT)	3-0-0-3	3
	CT6XX	Digital Twin Technology	4-0-0-4	4
	CT6XX	Augmented and Virtual Reality (AR/VR)	3-0-0-3	3
	CT6XX	Quantum Computing	3-0-0-3	3
	CT6XX	Edge Computing and AI	4-0-0-4	4

Program Elective and Open Elective courses, along with their credits, are tentative and subject to change



PROGRAM ADMISSION JOURNEY



STEP 1:

Fill up an online application form, upload the required documents and submit application



STEP 2:

Make the application payment



STEP 3:

Shortlisting based on work, and education profile



STEP 4:

If shortlisted, you will receive an offer letter from IIT Bhilai



STEP 5:

Pay admission confirmation fee within 7 days of receiving the offer letter

Note: The application fee once paid is not refundable. IIT Bhilai reserves the right to conduct the admissions process. By submitting the application, the students agree that any decision regarding Admissions from IIT Bhilai will be final and binding.

Fee Structure

Executive MTech in Cloud and Emerging Technologies

Application Fee (Non-Refundable)	₹ 5,000/-			
Fees	Instalment 1	Instalment 2	Instalment 3	Instalment 4
	₹ 1,00,000/-	₹ 1,00,000/-	₹ 1,00,000/-	₹ 1,00,000/-
Total Fees	₹ 4,05,000/-			

Cancellation & Fee Refund Policy:

➤ Application Fee: Non-refundable.

➤ Course Fee Refund:

A refund of 90% of the paid course fee will be issued if a request is raised before the Batch commencement date.

No refund will be provided on or after the batch commencement date.

क्रम सं./Serial No. 2022/0014

अनुक्रमांक सं./ID No. 12010230

भारतीय प्रौद्योगिकी संस्थान भिलाई

शिक्षा परिषद की अनुशंसा पर एवं पाठ्यक्रम की निर्धारित
अहंताओं एवं शोध को सफलतापूर्वक पूर्ण करने पर

XYZ शर्मा

को

**क्लाउड और उभरती प्रौद्योगिकियों में
कार्यकारी मास्टर ऑफ टेक्नोलॉजी**

की उपाधि प्रदान करता है।

संस्थान द्वारा मुद्रांकित यह उपाधि दिनांक अठारह जून दो हजार बाईस
को प्रदान की गई।



INDIAN INSTITUTE OF TECHNOLOGY BHILAI

upon the recommendation of the Senate hereby confers

XYZ Sharma

With the degree of

Executive MTech in

Cloud and Emerging Technologies

for successfully completing the prescribed program study
and presenting the thesis.

Given this day the Eighteenth of June, Two Thousand Twenty Two
under the seal of the Institute.

Digitally Signed by
Dr. Jyoti Chandra Singh
Registrar of IIT Bhilai

कुलसचिव
Registrar

Digitally Signed by
Prof. Rajat Meena
Director, IIT Bhilai

अध्यक्ष, शिक्षा परिषद
Chairman, Senate

Digitally Signed by
K. Venkateshwarlu
Director, IIT Bhilai

अध्यक्ष, संचालक मंडल
Chairman, Board of Governors





Get In Touch With Us

For registration and any other information please get in touch with us at admission.iitbhilai@digivarsity.com

Contact us: **033-4058-6356**