Admission into Blended Mode M.Tech in Cyber Security

Important Announcement:

IIT Bhubaneswar invites applications from interested candidates working in established industries in India as engineers for at least 2 years for the blended mode M.Tech. in "Cyber Security" programme (lectures will be delivered online in the evenings or on weekends) for the upcoming Autumn 2026-27 session. The program is being offered in association with WhizHack Technologies.

Programme Details:

The proposed “Blended Mode M.Tech in Cyber Security programme” is designed for engineering and science graduates with a minimum of two years of industry experience who are familiar with modern technological systems and seek to advance their expertise in cybersecurity. In response to the growing demand for skilled cybersecurity professionals, the programme aims to develop individuals who can integrate strong technical capabilities with a strategic understanding of organizational and business risks.

The programme provides comprehensive exposure to modern cybersecurity tools, platforms, and real-world attack–defence scenarios, with a strong emphasis on hands-on application. It is further strengthened through industry partnerships that enable practical training, expert interactions, industry-driven projects, and exposure to real-world cybersecurity challenges. The curriculum encompasses core areas such as network security, cryptography, secure software development, and ethical hacking, along with advanced topics including secure system design, risk assessment, governance, and compliance frameworks. Emerging domains such as AI-driven security and blockchain-based security mechanisms are also integrated into the curriculum. Upon completion of the programme, learners will be able to:

- Demonstrate comprehensive knowledge of cybersecurity principles, threat landscapes, risk management, and compliance frameworks.
- Apply cryptographic techniques, network security methods, secure software development practices, and ethical hacking skills to analyze and address complex security challenges.
- Design and evaluate secure system architectures, conduct risk assessments, and implement effective mitigation and incident response strategies.
- Leverage advanced technologies such as AI and blockchain in cybersecurity applications, while contributing to research and innovation.

- Communicate effectively, uphold legal and ethical standards, lead cybersecurity initiatives, and adapt to evolving threats through continuous learning.

The minimum time required to complete the programme is two years. However, it can also be completed at a relaxed pace within five years, providing flexibility for working professionals. Admissions will be conducted once every year (Autumn Semester).

Eligibility Criteria: Candidates should have a bachelor's degree in a science or engineering discipline with at least 2 years of relevant work experience.

Shortlisting Criteria: Shortlisting will be done based on marks scored in B.E./B.Tech. or equivalent.

Selection procedure: Shortlisted candidates will have to appear for an interview (in-person), and the selection process will be based on the performance during the interview.

Applicants are advised to carefully review the programme regulations available at:

https://www.iitbbs.ac.in/wp-content/uploads/2024/01/Blended-Mode-MTech-Regulations.pdf

Application fee (Non-refundable): Rs 500

Fees structure:

S. No.	Fee Component	Rs.	Remarks
Part-A			
1.	Registration Fee (one-time)	25,000/-	One time (valid for 5 years). After 5 years, Rs. 5,000/- per semester
Part-B			
1.	Tuition fee for lecture/lab course	1,000/- per hour	40 hours for a 3-credit course, 52 hours for a 4-credit course
2.	Tuition fee for M.Tech project work	30,000/-	For every 4 credits

Coordinator:

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For any queries related to the programme, contact:

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Credit structure for Blended Mode M.Tech in Cyber Security:

Semester 1				
Serial #	**Course #**	**Course Name**	**L-T-P**	**Credits**
1	CS6L090	Networks and Systems Security	2-0-2	3
2	CS6L091	Advanced Algorithms	3-0-0	3
3	CS6L077	Blockchain and Access Control	3-0-0	3
4	-	Program Elective I	3-0-0	3
5	-	Program Elective II	3-0-0	3

Semester 2				
Serial #	**Course #**	**Course Name**	**L-T-P**	**Credits**
1	CS6L005	Cryptography	3-0-0	3
2	CS6L048	Advanced Computer Networks	3-0-0	3
3	CS6P010	Advanced Algorithms Lab	0-0-3	2
4	-	Program Elective III	3-0-0	3
5	-	Program Elective IV	3-0-0	3
6	CS6D008	Thesis Part 1	0-0-0	2

Semester 3				
Serial #	**Course #**	**Course Name**	**L-T-P**	**Credits**
1	-	Program Elective V	3-0-0	3
2	CS6D009	Thesis Part 2	-	14

Semester 4				
Serial #	**Course #**	**Course Name**	**L-T-P**	**Credits**
1	CS6D010	Thesis Part 3	-	14
2	-	Program Elective VI	3-0-0	3

Program Electives:

Serial #	Course #	Course Name	L-T-P	Credits
1	CS6L040	Machine Learning and Cyber Security	3-0-0	3
2	CS6L070	Cyber-Physical Systems	3-0-0	3
3	CS6L030	Data-Intensive Computations	3-0-0	3
4	CS6L004	Machine Learning	3-0-0	3
5	CS6L092	Advanced Computer Architecture	3-0-0	3
6	CS6L045	Computer Vision	3-0-0	3
7	CS6L026	Wireless Sensor Networks	3-0-0	3
8	CS6L006	Fault Tolerant Systems	3-0-0	3
9	CS6L093	Artificial Intelligence	3-0-0	3
10	CS6L031	Game Theory	3-0-0	3
11	CS6L088	Ethical and Responsible Artificial Intelligence	3-0-0	3
12	CS6L024	Internet-of-Things	3-0-0	3
13	CS6L008	Cloud Computing	3-0-0	3
14	CS6L034	Software Engineering	3-0-0	3
15	CS6L069	Software-Defined Networking	3-0-0	3
16	CS6L043	Current Topics in AI & ML	3-0-0	3