



राष्ट्रीय प्रौद्योगिकी संस्थान अगर्तला
National Institute of Technology Agartala

OFFICE OF THE DEAN ACADEMIC AFFAIRS

No.F. NITA.5/(6-ACAD)/Ph.D/Admn/2025/Jan/A-1837

Dated- 18/11/2024

NOTIFICATION

Sub:- Notification for admission to Ph.D Programme for January – June 2025 academic session.

Applications are invited from the eligible candidates for admission to Ph.D Programme at NIT Agartala for **January – June 2025** academic session, in the departments as given below:

Sl. No.	DEPARTMENT	RESEARCH AREAS
1.	Bio Engineering	1) Biochemical Engineering: Strain improvement, Plasmid stability, reactor stability, Upstream and downstream processing, bioreactor design and analysis, process optimisation and intensification, Modelling and simulation of bioprocess, Metabolic Engineering, and Scale up. 2) Environmental Engineering: Solid and liquid waste management, environmental Modelling, waste utilisation, resource recovery and circular economy. 3) Molecular cell biology and genetics: Cell Biology, Molecular Biology, rDNA technology, Drug discovery and design, Bioinformatics
2.	Chemical Engineering	Chemical Engineering: Broad Areas of Research: Environmental Engineering and Sustainability; Bioprocess and Biosystem Engineering Energy Engineering Advanced Separation Processes and Technology Material Science and Technology Fluid Dynamics and Simulation Numerical Modeling and Simulation in Chemical Engineering (including Machine Learning and Artificial Intelligence)
3.	Civil Engineering	Broad area of research for Civil Engineering department will be notified soon.
4.	Computer Science & Engineering	1) Networks: Service-oriented network architectures; Network protocols and performance evaluations; Software-defined networking; Wireless sensor networks; Mobile computing and cognitive radio networks; MANET, VANET, and IoT; Network threat analysis and prevention; Social sensor networks; Underwater sensor networks; Cloud computing; 2) Information Systems: Data management systems; Information storage systems; Information systems applications; World Wide Web; Information retrieval; 3) Security and Privacy: Cryptography; Formal methods and theory of security; Security services; Intrusion/anomaly detection and malware mitigation; Security in hardware; Systems security; Network security; Database and storage security; Software and application security; Human and societal aspects of security and privacy; Access control; Blockchain; 4) Computing Methodologies: Artificial intelligence; Machine learning; Modeling and simulation; Computer graphics; Distributed computing methodologies; Concurrent computing methodologies; Natural language processing; Speech processing and language technology; Knowledge representation and reasoning; Search methodologies; Philosophical/theoretical foundations of artificial intelligence; Distributed

