



NABA BALLYGUNGE MAHAVIDYALAYA

(Formerly CHARUCHANDRA EVENING COLLEGE)

27E, Bosepukur Road, Kolkata - 700042

Email: nbmv2005@yahoo.co.in, Website: nbmahavidyalaya.in

NAME OF THE ADD-ON COURSE: ADVANCED COMPUTER TRAINING

TOTAL TIME: 30 Hrs.

DURATION: 15-12-2020—24-12-2020 (Online Mode)

FACULTY IN CHARGE: Smt Ujjaini Paul
FACULTY MEMBERS: Dr. Ranjan Samanta
Sri Swarnadeep Sen
Sri Anup Kumar Saha

The Curriculum consists of 10 Core Courses.

- **Advanced Data Structure and Algorithms:** Covering topics like AVL trees, B-trees, graph algorithms, dynamic programming etc.- Ujjaini Paul- 3 hrs
- **Parallel and Distributed Computing:** Including concepts like parallel algorithms, distributed systems, MapReduce etc.- Ranjan Samanta-3 hrs
- **Machine Learning and Artificial Intelligence:** Delving into deep learning, reinforcement learning, neural network architectures, natural language processing etc- Anup Kumar Saha-3 hrs
- **Cybersecurity:** Covering topics such as ethical hacking, cryptography, network security, secure coding practices etc.- Anup Kumar Saha-3 hrs
- **Cloud Computing:** Exploring cloud architecture, deployment models, containerization, serverless computing etc.- Ujjaini Paul-3 hrs
- **Big Data Analytics:** Including technologies like Hadoop, Spark, data warehousing, data mining techniques etc.- Ranjan Samanta-3 hrs
- **DevOps Practices:** Covering continuous integration/continuous deployment (CI/CD), configuration management, infrastructure as code(IaC), ETC.- Swarnadeep Sen-3hrs
- **Software Engineering Best Practices:** Including design patterns, refactoring techniques, code quality metrics etc.- Anup Kumar Saha- 3hrs



Ujjaini Paul

Principal
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- **Advanced Programming Languages:** Delving into languages like Scala, Go, Rust, Kotlin etc. and their advanced features and applications.- Ranjan Samanta-3 hrs
- **Quantum Computing:** Introduction to quantum mechanics, quantum gates, quantum algorithms, quantum programming languages etc.- Anup Kumar Saha- 3hrs

✓ Interactive Session to be organized by the Faculty in Charge.



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