Course 1

Course ID:

BTECH_CSE_101

Title:

Mastering Data Structures & Algorithms

Description:

Comprehensive course covering arrays, linked lists, stacks, queues, trees, graphs, sorting, and searching algorithms. Inclu

Learning Outcomes:

Implement core data structures, Solve algorithmic problems efficiently, Prepare for coding interviews

Level:

Intermediate

URL:

https://campusclature.com/courses/dsa

Type:

Concepts

Course 2

Course ID:

BTECH_CSE_102

Title:

System Design Fundamentals

Description:

Introduction to designing scalable systems, covering load balancing, caching, database design, sharding, and system trade

Learning Outcomes:

Understand distributed system design, Apply design patterns, Build scalable architectures

Level:

Advanced

URL:

https://campusclature.com/courses/system-design

Type:

Concepts

Course 3

Course ID:

BTECH_CSE_103

Title:

Operating Systems - Core Concepts

Description:

Covers process management, memory management, file systems, concurrency, and virtualization with real-world examples

Learning Outcomes:

Understand OS internals, Manage processes and threads, Implement scheduling algorithms

Level:

Intermediate

URL:

https://campusclature.com/courses/operating-systems

Type:

Course 4

Course ID:

BTECH_CSE_104

Title:

Database Management Systems (DBMS)

Description:

Detailed study of relational databases, SQL, normalization, transactions, and indexing with practical implementation in MyS

Learning Outcomes:

Design normalized schemas, Write optimized SQL queries, Understand transactions and ACID properties

Level:

Beginner

URL:

https://campusclature.com/courses/dbms

Type:

Concepts

Course 5

Course ID:

BTECH_CSE_105

Title:

Computer Networks Explained

Description:

Dive into the OSI model, TCP/IP, routing, switching, HTTP/HTTPS, and network protocols with detailed animations and har

Learning Outcomes:

Understand data transmission, Configure basic networks, Analyze network protocols

Level:

Intermediate

URL:

https://campusclature.com/courses/computer-networks

Type:

Mixed

Course 6

Course ID:

BTECH_CSE_106

Title:

Compiler Design Made Easy

Description:

Understand how compilers work, including lexical analysis, parsing, syntax trees, semantic analysis, and code generation.

Learning Outcomes:

Build simple compilers, Understand language parsing, Apply compiler techniques in tools

Level:

Advanced

URL:

https://campusclature.com/courses/compiler-design

Type:

Course 7

Course ID:

BTECH_CSE_107

Title:

Web Development Bootcamp

Description:

Learn full-stack web development using HTML, CSS, JavaScript, React, Node.js, and MongoDB. Includes hands-on projec

Learning Outcomes:

Build responsive UIs, Develop REST APIs, Deploy full-stack applications

Level:

Beginner

URL:

https://campusclature.com/courses/web-dev

Type:

Projects

Course 8

Course ID:

BTECH_CSE_108

Title:

Machine Learning with Python

Description:

Covers regression, classification, clustering, neural networks using Python libraries like scikit-learn, TensorFlow, and Keras

Learning Outcomes:

Train ML models, Analyze data trends, Solve real-world prediction problems

Level:

Intermediate

URL:

https://campusclature.com/courses/ml-python

Type:

Concepts

Course 9

Course ID:

BTECH_CSE_109

Title:

Software Engineering Principles

Description:

Covers SDLC, Agile methodologies, software testing, version control, and requirement gathering with industry examples.

Learning Outcomes:

Apply Agile practices, Write maintainable code, Collaborate in software projects

Level:

Beginner

URL:

https://campusclature.com/courses/software-engineering

Type:

Course 10

Course ID:

BTECH_CSE_110

Title:

Cloud Computing Essentials

Description:

Introduction to cloud platforms like AWS, Azure, and GCP. Learn IaaS, PaaS, SaaS, serverless, storage, and basic DevOp

Learning Outcomes:

Use cloud services, Deploy applications, Understand CI/CD and serverless

Level:

Intermediate

URL:

https://campusclature.com/courses/cloud-computing

Type:

Mixed
