



RUBY PROGRAMMING LANGUAGE



Programming & development

Course Curriculum

Basic – 30 Hours



RUBY PROGRAMMING LANGUAGE

Module 1 : Introduction to RUBY

- Introduction to RUBY
- History of RUBY
- Understanding Ruby's Principle

Module 2: Environment Setup in Ruby

- Installation Ruby on Linux
- Installation Ruby on Windows

Module 3: Basics of Ruby

- Keywords
- Data types
- Basic Syntax
- Comments
- Ranges
- Literals
- Directories



Module 4: Operators in Ruby

- Operator Precedence in Ruby
- Operator Overloading in Ruby

Module 5: Variables

- Types of Variables
- Global Variable
- Pre-define variables & Constants

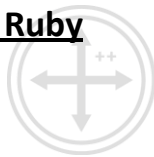


Module 6: Control Statements

- Decision Making
- If
- If-else
- If-else-if
- Ternary
- Loops
- For
- While
- Do...while
- Until
- Case statement
- Control flow alteration
- Break and next statement
- Redo and retry statement
- BEGIN and END Blocks

Module 7: Methods in Ruby

- Method Visibility
- Recursion
- Hook Methods
- Range class methods
- The Initialize Method
- Method Overriding
- Date and Time



Module 8: OOP Concepts in Ruby

- Class & Object
- Private Classes
- Freezing Objects
- Inheritance
- Polymorphism
- Constructors
- Access Control
- Encapsulation
- Mixins



- Instance Variables
- Data Abstraction
- Static Members

Module 9: Exceptions

- Exception handling
- Catch and Throw exception
- Raising Exception
- Exception Handling in Threads
- Exception Class and its Methods

Module 10: Ruby Regex

- Regular Expressions
- Search and Replace

Module 11: Ruby Classes



- Float Class
- Integer Class
- Symbol Class
- Struct Class
- Dir Class and its Methods
- MatchData Class

Module 12: Ruby Module

- Module
- Comparable Module
- Math Module
- Include v/s Extend

Module 13: Collections

- Arrays



- String Basics
- String Interpolation
- Hashes Basics
- Hash class
- Blocks

