

VFRSINN



SR. CODE

EAPL/CRASH/CRTC11

COURSE CODE

EACGO

SUB CATEGORY

SOFTWARE DEVELOPMENT







ELYSIUM ACADEMY GORE GU PROGRAMMING





COURSE DESCRIPTION



The Core Go Programming course introduces participants to the fundamentals of the Go programming language, commonly referred to as Golang. Participants will learn key concepts such as syntax, data types, control structures, functions, and concurrency patterns.

COURSE GOALS

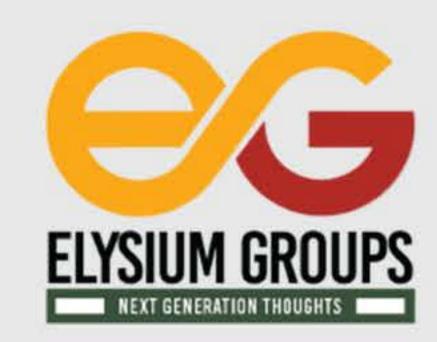


The goal of the Core Go Programming course is to equip participants with the knowledge and skills necessary to become proficient Go developers. By the end of the course, participants will be able to design and implement robust, high-performance applications and services using Go.

FUTURE SCOPE



Proficiency in Go programming opens doors to a variety of career opportunities, including roles such as Go developer, backend developer, systems programmer, and cloud engineer. As Go continues to gain traction in industries such as cloud computing, microservices architecture, and distributed systems, skilled Go developers are in high demand.



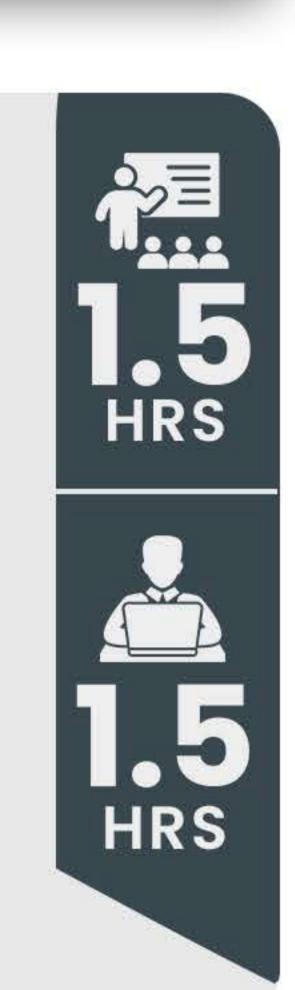




CHAPTER CHAPTER

Introduction

- 1. Go Programming Language (Introduction)
- 2. How to Install Go on Windows?
- 3. How to Install Golang on MacOS?
- 4. Hello World in Golang



CHAPTER

Fundamentals

- 1. Identifiers in Go Language
- 2. Go Keywords
- 3. Data Types in Go
- 4. Go Variables
- 5. Constants- Go Language
- 6. Go Operators



CHAPTER

Control Statements

- 1. Go Decision Making (if, if-else, Nested-if, if-else-if)
- 2. Loops in Go Language
- 3. Switch Statement in Go









CHAPTER

Functions & Methods

- 1. Functions in Go Language
- 2. Variadic Functions in Go
- 3. Anonymous function in Go Language
- 4. main and init function in Golang
- 5. What is Blank Identifier(underscore) in Golang?
- 6. Defer Keyword in Golang
- 7. Methods in Golang



G G CHAPTER

Structure

- 1. Structures in Golang
- 2. Nested Structure in Golang
- 3. Anonymous Structure and Field in Golang



CHAPTER

Arrays

- 1. Arrays in Go
- 2. How to Copy an Array into Another Array in Golang?
- 3. How to pass an Array to a Function in Golang?









CHAPTER

Slices

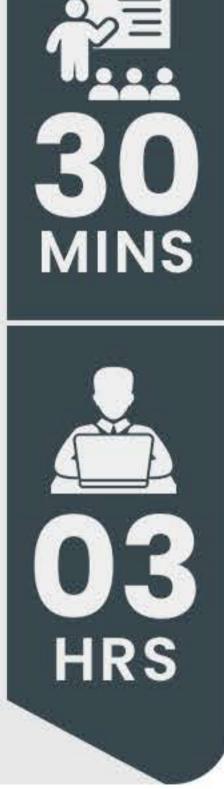
- 1. Slices in Golang
- 2. Slice Composite Literal in Go
- 3. How to sort a slice of ints in Golang?
- 4. How to trim a slice of bytes in Golang?
- 5. How to split a slice of bytes in Golang?



G G CHAPTER

Strings

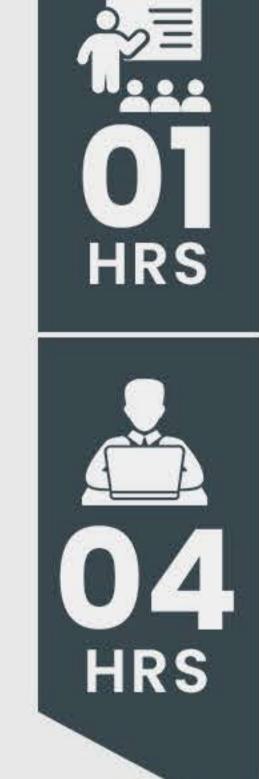
- 1. Strings in Golang
- 2. How to Trim a String in Golang?
- 3. How to Split a String in Golang?
- 4. Different ways to compare Strings in Golang



CHAPTER

Pointers

- 1. Pointers in Golang
- 2. Passing Pointers to a Function in Go
- 3. Pointer to a Struct in Golang
- 4. Go Pointer to Pointer (Double Pointer)
- 5. Comparing Pointers in Golang



CHAPTER

Concurrency

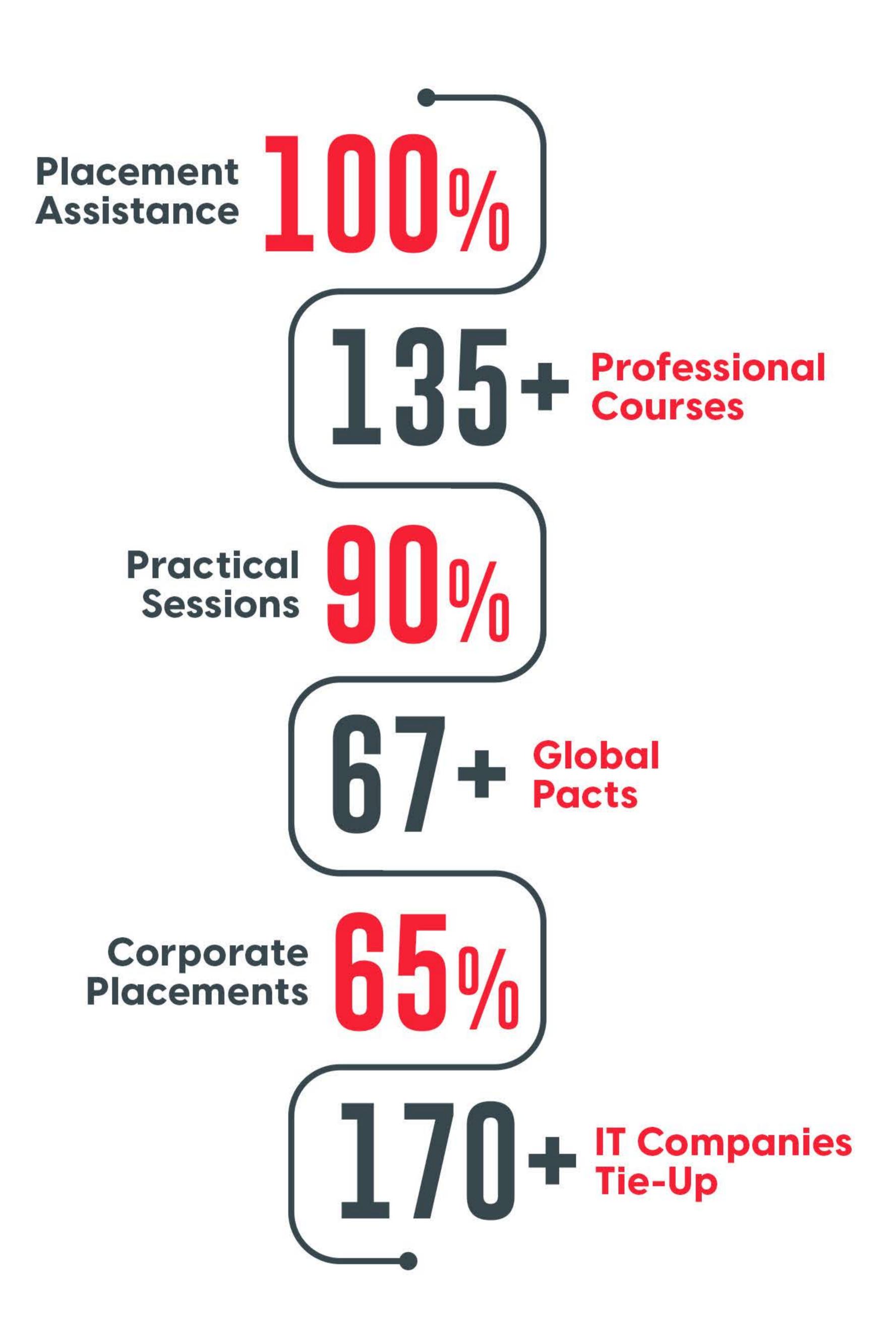
- 1. Goroutines Concurrency in Golang
- 2. Select Statement in Go Language
- 3. Multiple Goroutines
- 4. Channel in Golang
- 5. Unidirectional Channel in Golang











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