

GHAR SE CODE {

Angular JS Syllabus:-

Course Title: Angular JS

Course By: GSC (GHAR SE CODE)

Duration: 30 Hrs

Code Spirit: “Structure your logic, separate your concerns, and bind your views with clarity and purpose “

Module	Topic	Detailed Overview
1	Introduction to AngularJS	- What is AngularJS?- History and Evolution- Features and Benefits- Setup with CDN or Local- AngularJS vs Other Frameworks
2	Basic Concepts	- MVC Architecture- The Role of SPA (Single Page Applications)- AngularJS Application Structure- First AngularJS App
3	Directives	- Built-in Directives (ng-model, ng-bind, ng-init, ng-repeat, ng-if, ng-show, ng-hide)- Custom Directives (Basic Intro)- Data Binding using Directives
4	Expressions and Data Binding	- AngularJS Expressions vs JavaScript Expressions- One-way and Two-way Data Binding- Binding HTML, Attributes, CSS
5	Controllers and Scope	- Defining a Controller- \$scope Object- Scope Inheritance- Controller As Syntax (optional)
6	Forms and User Input	- Form Controls (input, select, textarea)- ng-model and Form Binding- Validation using AngularJS (required, ng-minlength, etc.)- Custom Validations

Module	Topic	Detailed Overview
7	Filters	- Built-in Filters (currency, date, filter, limitTo, orderBy)- Chaining Filters- Creating Custom Filters
8	Modules and Dependency Injection	- AngularJS Modules- Creating and Using Modules- Config and Run Blocks- Dependency Injection Concept
9	Services and Factories	- Built-in Services (\$http, \$location, \$timeout, \$interval)- Creating Custom Services- Factory vs Service vs Provider
10	Routing with ngRoute	- Single Page App Setup- Using ngRoute module- Configuring Routes with \$routeProvider- Route Parameters
11	HTTP and AJAX	- Using \$http Service- Making GET, POST, PUT, DELETE Requests- Handling JSON Data- Promises (.then, .catch)
12	Custom Directives and Advanced Concepts	- Creating Custom Directives (restrict, template, scope)- Isolate Scope in Directives- Transclusion- Digest Cycle Overview
13	Testing and Best Practices	- Introduction to Unit Testing with Jasmine/Karma- Testing Controllers, Services- AngularJS Best Practices- Migration Tips to Angular (2+)
14	Final Project and Revision	- Final Project: e.g., Task Manager, Student Portal, Contact Book- Code Review and Optimization- Final Assessment and Wrap-Up

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