Course outline:

TypeScript

 Intro to TypeScript

 Types

 Variables

 Operators

 Decision Making

 Loops

 Functions

 Numbers

 Strings

 Arrays

 Interfaces

 Classes

 Objects

 Namespaces

Modules

 @NgModule decorator

 Import and export modules

 Declarations in module

o Registering Components

o Registering Pipes

 Registering providers in module

 Bootstrapping component

Components and Directives

 Built-in Components

o NgIf

o NgSwitch

o NgStyle

o NgClass

o NgFor Custom Components

o Component Decorator

o Exporting components

o Templates and TemplateUrl

o Styles and styleUrls

o Accessing elements using Reference (#ref)

o Defining events

Forms

 Template Driven Forms

o NgForm and NgModel

o FormsModule

 Reactive Forms

o FormControl and FormGroup

o ReactiveFormsModule

 Using Validators

o Custom validators

 Watching form changes

Dependency Injection

 Injecting on components

 Global injection on modules

 Providers

 Hierarchical injection

Pipes

 Built-in pipes

 Custom pipes

Lifecycle Hooks

 OnInit interface

 OnInit and OnDestroy

 OnChanges

 Constructor vs ngOnInit

Injectable Services

 Built-in Services

 Creating Custom services

o Registering services in module

o Registering services in Component

 Injecting Services in Constructor

 Need for @Injectable

Stream programming with RxJS

 EventEmitter

 Creating observables

o Observer

o Subscribers

Routing and Navigation

 Importing RouterModule

 Creating Routes

o Path and Components

o Exporting Routes

 Passing Route parameters

o ActivatedRoute

o Params.snapshot

o Subscribing parameters

o Passing multiple parameters

 RouterOutlet using <router-outlet>

 RouterLink using [routerLink]

 Defining child routes

Http Services

 Importing HttpModule

 Requesting REST services

o GET, POST, PUT and DELETE

o RequestOptions

o Consuming Results