PHP-তে দক্ষ হতে হলে কিছু গুরুত্বপূর্ণ টপিক শিখতে হবে। নিচে PHP-এর টপিকের একটি তালিকা দেওয়া হলো:

**১. ভিত্তি (Basics)**

* PHP Syntax
* Variables and Constants
* Data Types (String, Integer, Float, Boolean, Array, Object)
* Operators (Arithmetic, Assignment, Comparison, Logical)
* Control Structures (if, else, elseif, switch)
* Loops (for, while, do-while, foreach)
* Superglobals ($\_GET, $\_POST, $\_REQUEST, $\_SESSION, $\_COOKIE, $\_SERVER)
* Comments

**২. ফাংশন (Functions)**

* Defining and Calling Functions
* Function Parameters and Return Values
* Recursion
* Variable Scope (Global, Local, Static)
* Anonymous Functions (Closures)
* Built-in PHP Functions (String, Array, Math, Date)

**৩. অ্যারে (Arrays)**

* Indexed Arrays
* Associative Arrays
* Multidimensional Arrays
* Array Functions (push, pop, shift, unshift, array\_merge, array\_diff, etc.)

**৪. ফাইল ম্যানেজমেন্ট (File Handling)**

* File Uploads
* File Open, Read, Write
* File Permissions
* Handling Directories
* File Inclusion (include, require, include\_once, require\_once)

**৫. স্ট্রিং ম্যানিপুলেশন (String Manipulation)**

* String Functions (strlen, str\_replace, strpos, substr, etc.)
* Regular Expressions (preg\_match, preg\_replace, etc.)
* String Interpolation vs. Concatenation

**৬. অবজেক্ট-ওরিয়েন্টেড প্রোগ্রামিং (OOP)**

* Classes and Objects
* Properties and Methods
* Constructors and Destructors
* Inheritance
* Encapsulation (Access Modifiers: public, private, protected)
* Polymorphism (Method Overriding, Interfaces)
* Abstract Classes
* Static Methods and Properties
* Namespaces and Autoloading (PSR-4)

**৭. ডেটাবেস অপারেশন (Database Operations)**

* Connecting to a Database (MySQL, PostgreSQL)
* SQL Queries (SELECT, INSERT, UPDATE, DELETE)
* PDO (PHP Data Objects)
* Prepared Statements
* Error Handling in Database Operations

**৮. ফর্ম হ্যান্ডলিং (Form Handling)**

* Handling Form Submissions with $\_GET and $\_POST
* Data Validation
* Data Sanitization (filter\_var, htmlspecialchars)
* Preventing SQL Injection (Prepared Statements)

**৯. সেশন এবং কুকিজ (Sessions & Cookies)**

* Starting a Session
* Storing and Retrieving Session Data
* Destroying a Session
* Setting and Retrieving Cookies
* Cookie Expiration

**১০. ফাইল আপলোড এবং ডাউনলোড (File Upload and Download)**

* Handling File Uploads
* Validating File Types and Size
* Securing File Uploads
* File Download Mechanism

**১১. AJAX এবং JSON (AJAX & JSON)**

* Making AJAX Requests from JavaScript
* Handling AJAX Responses in PHP
* JSON Encoding and Decoding
* Working with APIs (RESTful API)

**১২. এক্সসেপশন এবং এরর হ্যান্ডলিং (Exception & Error Handling)**

* Handling Errors (error\_reporting, try-catch, finally)
* Custom Error Handlers
* Logging Errors

**১৩. ফ্রেমওয়ার্ক এবং লাইব্রেরি (Framework & Libraries)**

* Introduction to Composer
* Using PHP Packages/Libraries
* Introduction to Laravel (or other frameworks)

**১৪. ক্লিন কোড এবং বেস্ট প্র্যাকটিস (Clean Code & Best Practices)**

* PSR (PHP Standard Recommendations)
* DRY (Don't Repeat Yourself) Principle
* SOLID Principles
* Writing Maintainable and Readable Code

**১৫. সিকিউরিটি (Security)**

* SQL Injection Prevention
* Cross-Site Scripting (XSS)
* Cross-Site Request Forgery (CSRF)
* Password Hashing (bcrypt, Argon2)
* Input Validation and Output Escaping

**১৬. API ডেভেলপমেন্ট (API Development)**

* Creating RESTful APIs
* Authentication and Authorization (OAuth, JWT)
* API Versioning
* Rate Limiting and Caching

**১৭. মেমরি ম্যানেজমেন্ট এবং অপ্টিমাইজেশন (Memory Management & Optimization)**

* PHP Memory Limit
* Caching (APCu, Memcached, Redis)
* Profiling and Optimizing PHP Code (Xdebug, Blackfire)

**১৮. ভিত্তি (Deployment & Server Management)**

* Setting up PHP on Servers (Apache, Nginx)
* Environment Configuration (.env files)
* Handling Production and Development Modes
* Continuous Integration/Continuous Deployment (CI/CD)