

FULL STACK LARAVEL + REACT DEVELOPER SYLLABUS

Module 1: Web Development Foundations

- How websites and web applications work
- HTML5
- CSS3
- Responsive design
- Forms
- Browser developer tools
- Basic accessibility
- Introduction to JavaScript

Module 2: Modern JavaScript

- Variables
- Functions
- Arrays and objects
- DOM
- Events
- ES6+
- Modules
- Promises
- Async/await
- Fetch API

Module 3: React Fundamentals

- React architecture
- Components
- JSX
- Props
- State
- Events

- Conditional rendering
- Lists
- Forms
- React project structure

Module 4: Advanced React

- Hooks
- useState
- useEffect
- Custom hooks
- Context API
- Routing
- Form handling
- API integration
- State management concepts

Module 5: PHP & Laravel Fundamentals

- PHP fundamentals
- Object-oriented PHP
- Laravel architecture
- Installation
- Routes
- Controllers
- Views
- Blade
- Middleware

Module 6: Laravel Database Development

- MySQL
- Migrations
- Models
- Eloquent ORM
- Relationships
- CRUD

- Validation
- Query building
- Database-driven applications

Module 7: Laravel APIs

- REST architecture
- API routes
- Controllers
- JSON responses
- API validation
- Resources
- Authentication concepts
- Connecting React with Laravel

Module 8: Authentication & Security

- User registration
- Login
- Authentication
- Authorization
- Roles and permissions
- Middleware
- Security fundamentals
- Form validation
- Secure API practices

Module 9: React + Laravel Integration

- Connecting React frontend to Laravel backend
- API requests
- Authentication flow
- CRUD application
- Error handling
- Loading states
- Frontend/backend architecture

Module 10: Real-World Application Development

- Project planning
- Database design
- User roles
- Dashboard
- Admin panel
- Search and filtering
- Reports
- File uploads
- Notifications

Module 11: Testing, Git & Deployment

- Git
- GitHub
- Debugging
- Application testing concepts
- Environment configuration
- Production preparation
- Deployment fundamentals

Module 12: Final Project & Career

- Final project development
- GitHub portfolio
- Documentation
- Resume project presentation
- Freelancing
- Client requirements
- Interview preparation
- Full-stack career roadmap