**Khwarizmi Qualification**

1. **Front End**
2. **HTML**

|  |  |  |
| --- | --- | --- |
| Primary | Sub Content | Theory |
| Standard Markup Language | HTML | Get Ready for HTML |
| History &Growth of HTML |
| Web Browser & Text Editor |
| Basic Structure of HTML |
| Head Element |
| Text Formating Element |
| List Element |
| Image Related Element |
| Audio & Video Element |
| Table Element |
| Form Element |
| HTML5 Form Element |
| Embed, Object & Iframe |
| Canvas |
| Scalable Vector Graphics |

1. **CSS**

|  |  |  |
| --- | --- | --- |
| Primary | Sub Content | Theory |
| Styling Language | CSS | Get Ready for CSS |
| History &Growth of CSS |
| Web Browser & Text Editor |
| CSS’ Rules |
| CSS Selector |
| Cascade, Inheritance & Specificity |
| Typography |
| Box Model |
| Background |
| Positioning |
| Gradient |
| Multiple Column |
| Border |
| 2D Transform |
| Transition & Animation |
| Media Query |

1. **JavaScript**

|  |  |  |
| --- | --- | --- |
| Primary | Sub Content | Theory |
| Web Client Programming Language | Basic | Output |
| Variable |
| Operator (Arithmetic & Assignment) |
| Data Type |
| Function |
| Object |
| Event |
| String |
| Array |
| Condition |
| Loop |
| Class |
| DOM | Intro |
| Methods |
| Document |
| Element |
| HTML |
| CSS |
| Animation |
| Events & Event Listener |
| Navigation |
| Nodes & Node List |
| Collections |
| AJAX | Intro |
| XMLHttp |
| Request |
| Response |
| XML File |
| Database |
| Application |
| JSON | Intro |
| Syntax |
| Data Type |
| Parse |
| Stringify |
| Object |
| Array |
| HTML |
| JSONP |

1. **Back End**
2. **Web Development**

|  |  |  |
| --- | --- | --- |
| Primary | Sub Content | Theory |
| Web Server Programming Language | PHP | Intro |
| Variable |
| Data Type |
| String |
| Number |
| Constants |
| Operator |
| Condition |
| Switch |
| Loop |
| Function |
| Array |
| Date & Time |
| File Controlling |
| Cookies |
| Session |
| Filters |
| OOP |
| Node JS | First App |
| REPL Terminal |
| Callback Concept |
| Event (Loop Emitter) |
| Buffers |
| Stream |
| File System |
| Global Object |
| Utility |
| Express |
| RESTful API |
| Scaling |
| Packaging |
| Django Python | Intro |
| Apps LifeCycle |
| Admin Interface |
| Views |
| Mapping |
| Template System |
| Model |
| Page Redirection |
| Form Processing |
| File Controlling |
| Apache Setup |
| Cookies |
| Sessions |
| Caching |
| RSS |

1. **Desktop Development**

|  |  |  |
| --- | --- | --- |
| Primary | Sub Content | Theory |
| Java | Swing | Controlling UI Element |
| Event Handling |
| Event Classes |
| Event Listener |
| Event Adapters |
| Layout |
| Menu |
| Containers |
| FX | Architecture |
| 2D Shape |
| Text |
| Effects |
| Transformation |
| Animations |
| Color |
| Image |
| 3D Shape |
| Event Handling |
| UI Control |
| Charts |
| CSS |

1. **Mobile Development**

|  |  |  |
| --- | --- | --- |
| Primary | Sub Content | Theory |
| Native Mobile Development | Android Studio | Architecture |
| Resources |
| Activities |
| Services |
| Fragment |
| Intent |
| Receivers & Content Provider |
| UI Layout |
| UI Controller |
| Event Handling |
| Style & Themes |
| Animation |
| Other |
| React Native | State |
| Props |
| Styling |
| Flexbox |
| ListView |
| TextInput |
| ScrollView |
| Image |
| HTTP |
| Button |
| Animation |
| Router |
| View |
| Modal |
| Other API |