

# TETHRAL TECHNOLOGY LTD

## SOFTWARE ENGINEERING SYLLABUS

| <b>Sprint 1 (First - Second Month)</b> | <b>Sprint 2 (Second - Third Month)</b> | <b>Sprint 3 (Third - Fourth Month)</b> |
|--|--|--|
| Introduction to Computing              | Regex & JSON manipulation in Python    | Introduction to Reactjs                |
| History of Language                    | Classes in Python                      | Components in Reactjs                  |
| Introduction to bash scripting         | Inheritance in Python                  | Hooks in Reactjs                       |
| Git & Editor                           | Introduction to HTML & CSS             | Styling in Reactjs                     |
| Introduction to C programming          | Introduction to JavaScript             | Routing in Reactjs                     |
| Variable in C                          | Introduction to Database System        | State management in Reactjs            |
| Pointer in C                           | DBMS in Database System                | Redux in Reactjs                       |
| Recursion in C                         | Introduction to SQL Queries            | Introduction to Asynchronous Coding    |
| Memory Allocation in C                 | Join Queries in SQL                    | More on ES6                            |
| Preprocessor and Bits in C             | Working with Postgresql                | Async with Python                      |
| File structure I/O in c                | Working with MySQL                     | NoSQL                                  |
| Collaboration the gitway               | Web Scraping in Python                 | GraphQL                                |
| Introduction to Python                 | Web frameworks in python               | Unit testing                           |
| Data types in Python                   | RESTFUL APis in Python                 | API paginations                        |
| Variables in Python                    | DSA in python                          | Load balancers                         |
| Modules & Import in Python             | Web Scraping in JavaScript             | Firewall                               |
| Data Structure in Python               | Introduction to ES6                    | Server monitoring                      |
| File structure I/O in Python           | Typescript                             | System Architecture                    |
| OOP in Python                          | Advance HTML & CSS                     | Code Challenges                        |