Here's an expanded **Software Testing & Java Syllabus** in table form:

| **S. No.** | **Module** | **Topics Covered** |
| --- | --- | --- |
| **1** | Introduction to Testing | SDLC & STLC, Testing Principles, QA vs. QC vs. Testing |
| **2** | Software Testing Types | Manual vs. Automation, Functional & Non-functional Testing |
| **3** | Test Planning & Management | Test Plan, Test Strategy, Test Case Design Techniques |
| **4** | Test Execution & Defect Tracking | Test Execution, Defect Lifecycle, Bug Reporting (JIRA) |
| **5** | Automation Testing | Selenium WebDriver, TestNG, Cucumber |
| **6** | API Testing | Postman, Rest Assured, API Requests & Responses |
| **7** | Database Testing | SQL Queries, Data Validation, Integrity Testing |
| **8** | Performance Testing | JMeter Basics, Load & Stress Testing |
| **9** | Security Testing | Basics of OWASP, Common Vulnerabilities |
| **10** | CI/CD & Version Control | Git Basics, Jenkins for Test Automation |
| **11** | Agile & DevOps in Testing | Scrum, Kanban, Shift-left Testing |
| **12** | Java Basics for Testers | Variables, Data Types, Operators, Control Statements |
| **13** | OOPs Concepts in Java | Classes, Objects, Inheritance, Polymorphism, Encapsulation, Abstraction |
| **14** | Java Collections Framework | List, Set, Map, Iterator |
| **15** | Exception Handling | Try-Catch, Finally, Throw, Throws |
| **16** | File Handling in Java | Reading/Writing Files, BufferedReader, FileWriter |
| **17** | Java & Selenium Integration | WebDriver Commands, Locators, Handling Alerts, Frames, Windows |
| **18** | Interview & Real-world Scenarios | Test Case Writing, Debugging, Interview Preparation |

Let me know if you need further refinements! 😊