TCR INNOVATION

JAVA + SQL
INTERNSHIP PROGRAM

Java
+
MySQL

- 60+ Hours of Online Training
- 1:1 Live Mentoring
- Career, Interview and Internship guidance
- Learn 8+ Technologies
- Learn from Industry Experts
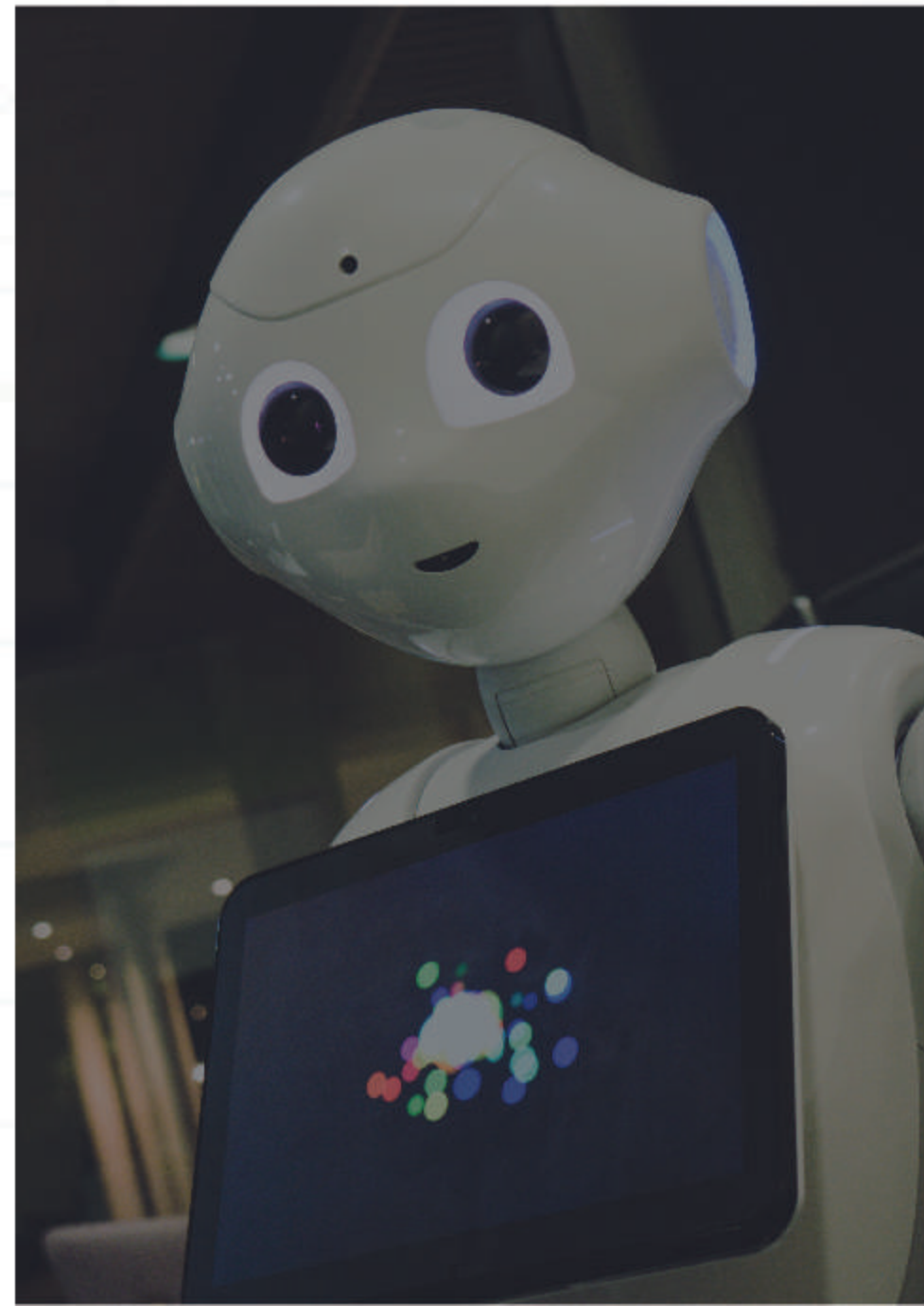- Create your own hands-on Project
- Intern with us

TCR INNOVATION

Who are we?

TCR Innovation is a career platform for Students and Learners where they are provided with practical opportunities, Industrial Training Programs and Internships.

Mentor

Mentor is an Industrial Expert with an experience of more than 15+ Years and his students are part of Reputed Companies such as:

Silent Features of
This course

1. 70+ Hours of Live Intensive Training

2. 10+ Hours of Hands-on Assignments and Projects

3. Lorem ipsum dolor Career, interview, internship and Placement guidance

4. Lifetime Access to Latest Content

5. Learn from the Experts

6. 24X7 Support through Discussion form

7. Career Support

Additional skills
You will learn

- **in** Linkedin
- **Github**
- Improved communication skills
- Interview cracking
- Resume building
- Leadership skills

What will you learn?
CORE JAVA

Part 1

● Basics of Java

What is Java?
History and Features of Java
Hello Java Program
How to set the path?
JDK, JRE, and JVM (Java Virtual Machine)
Variable and Data Type, Naming Convention
Operators, Keywords,

● Control Statements

if-else, switch, For loop, while loop, etc

● Methods in Java

Methods in Java
Use of method in Java
Method declaration, method signature
Types of methods in Java: predefined method,
user-defined methods: instance method, static method
Calling of method

● Java Array

Types of array: single dimensional array,
multidimensional array,
declaration, instantiation, and initialization of Java array
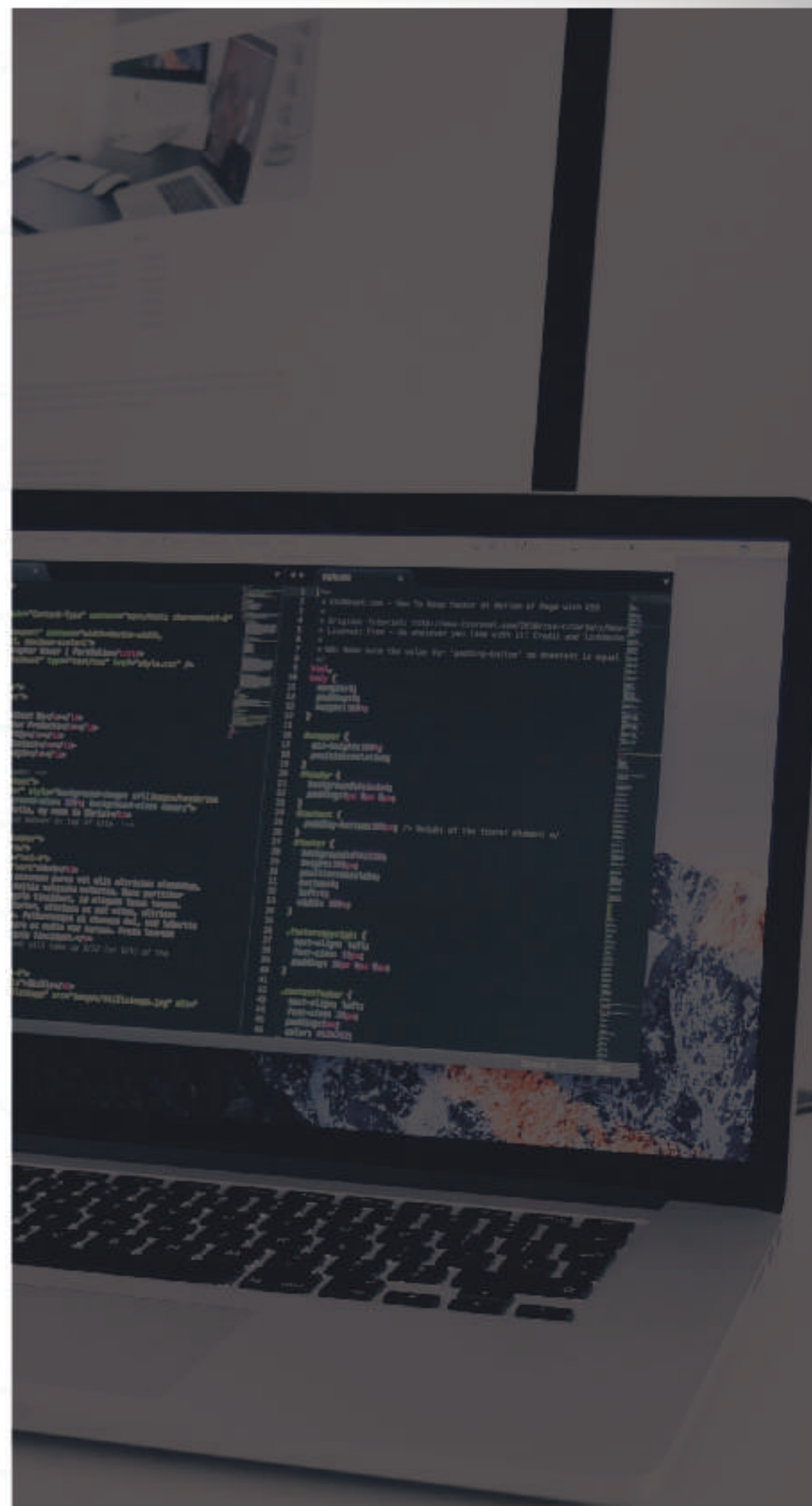
What will you learn?
CORE JAVA
Part 2

● OOPS Concepts

Advantage of OOPs
Object and Class
Method Overloading
Constructor
static variable, method and block
this keyword
Inheritance (IS-A)
Aggregation and Composition (HAS-A)
Method Overriding
super keyword
final keyword
Inheritance
Runtime Polymorphism
static and Dynamic binding
Abstract class and Interface
Package and Access Modifiers

● String, String Buffer, String Builder

String,
Immutable String
String Comparison, String concatenation
Substring
StringBuffer class
StringBuilder class
toString method
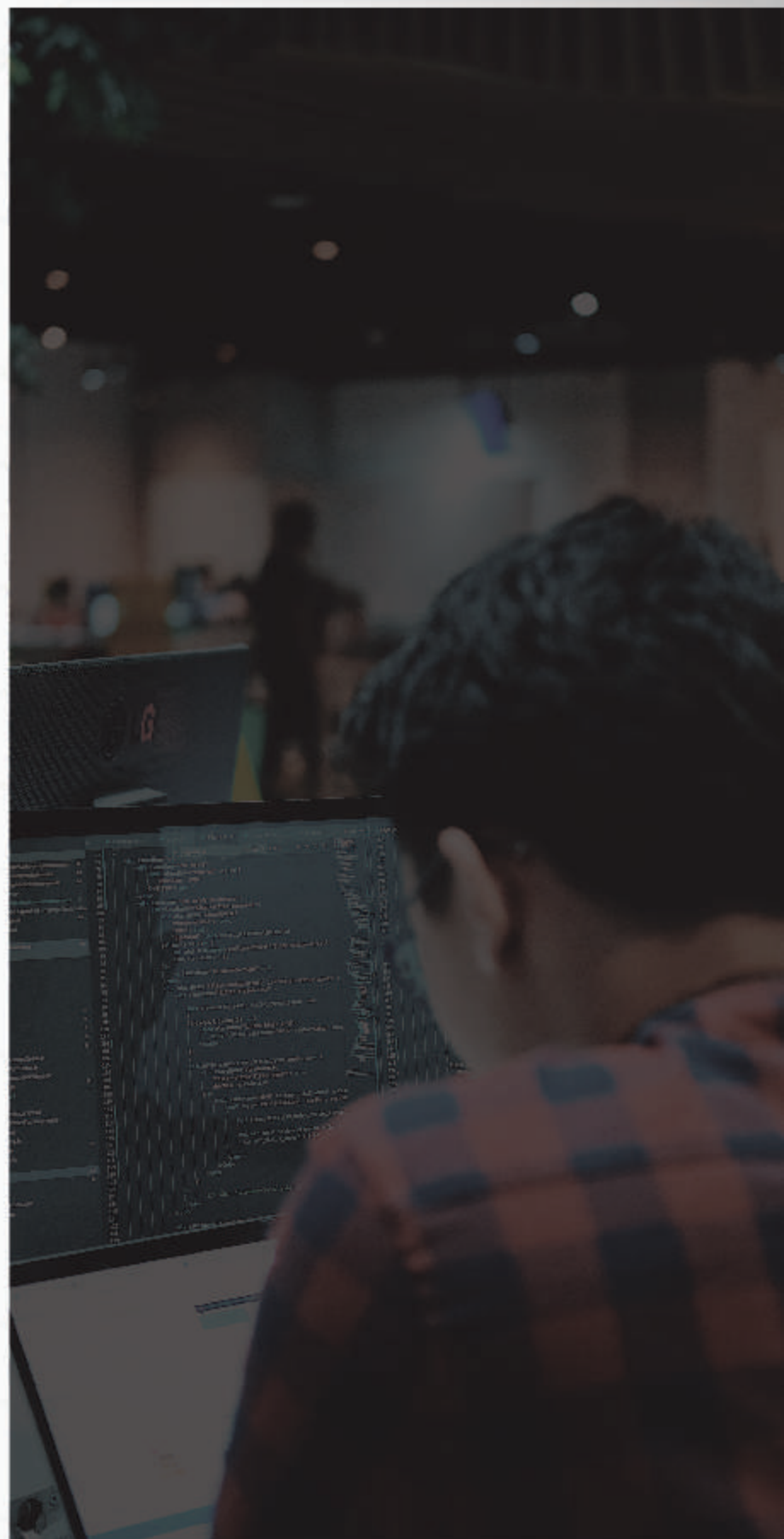
What will you learn?
CORE JAVAa
Part 3

● Exception Handling

Exception Handling: What and Why?
try and catch block
Multiple catch block
Nested try
finally block
throw keyword
Exception Propagation
throws keyword
Exception Handling with Method Overriding
Custom Exception

● Multithreading

Multithreading: What and Why?
Life Cycle of a Thread
Creating Thread
Thread Schedular
Sleeping a thread
Joining a thread
Thread Priority

● Input and output

FileOutputStream & FileInputStream
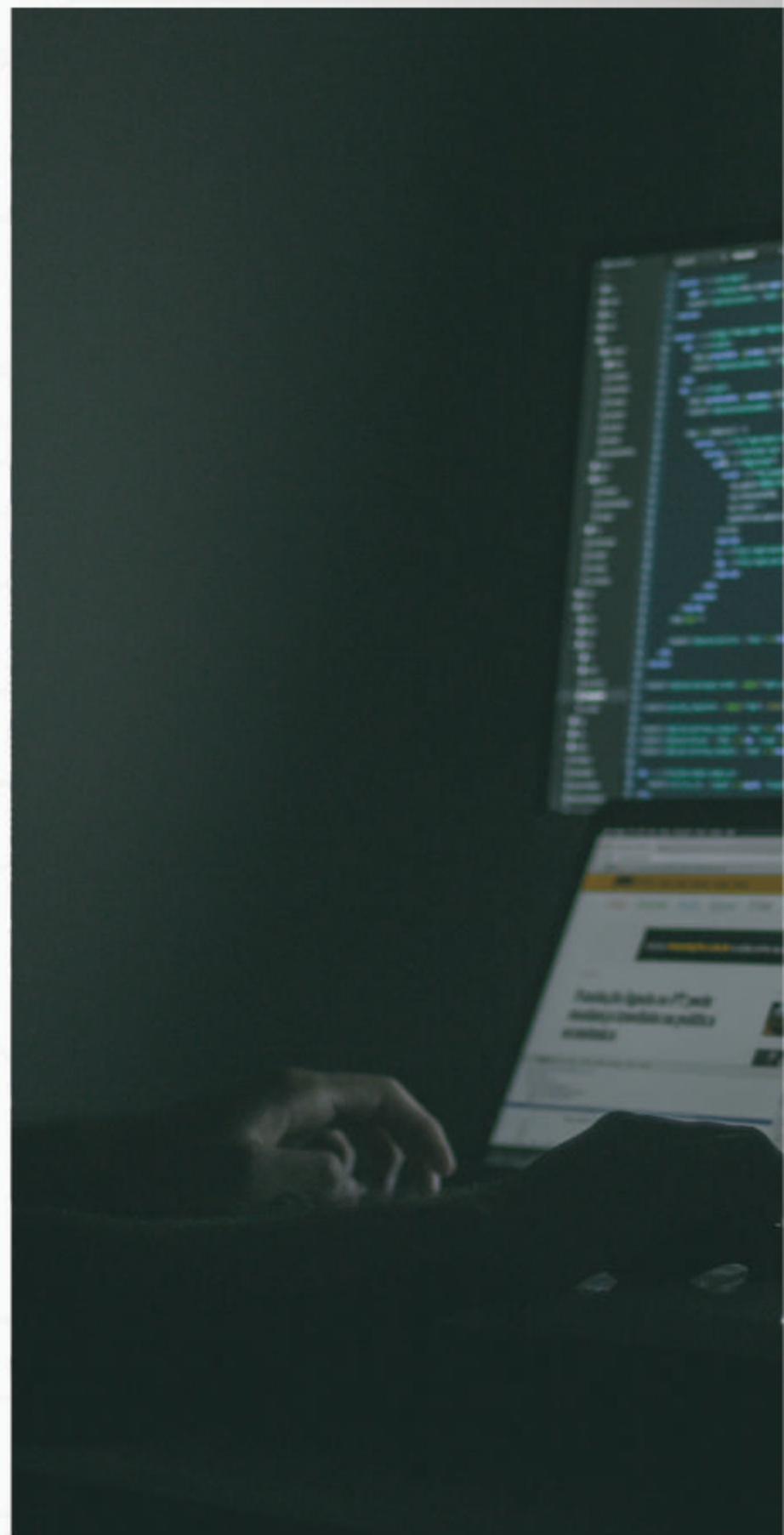
What will you learn?

CORE JAVA

Part 4

● Swing

Basics of Swing
JButton class
JRadioButton class
JTextArea class
JComboBox class
JTable class
JColorChooser class
JProgressBar class
JSlider class

● JDBC

Steps to connect to the database
Connectivity with MySQL
DriverManager
Connection interface
Statement interface
ResultSet interface
PreparedStatement
ResultSetMetaData
DatabaseMetaData
Batch Processing
Mini Project
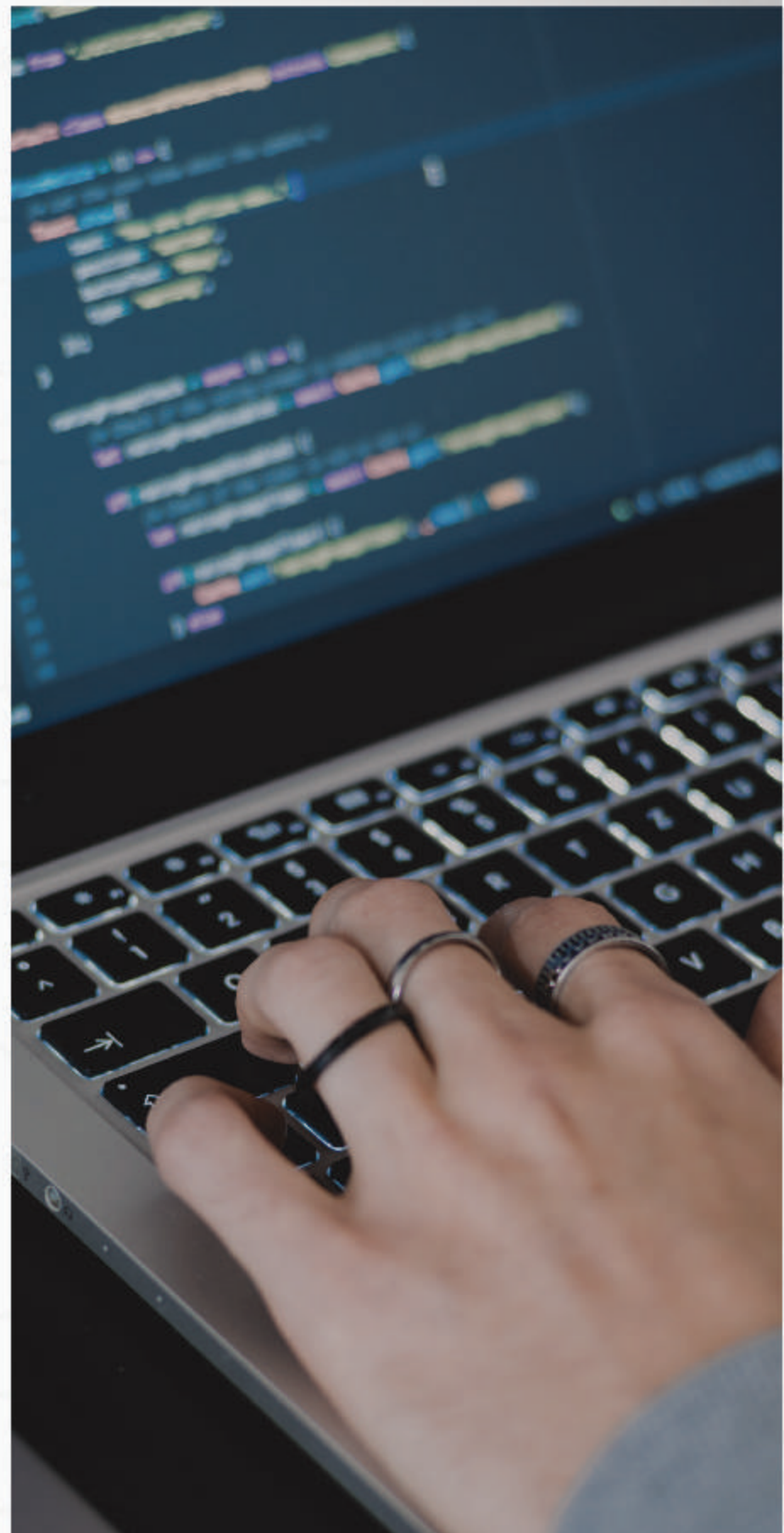
SKILLS YOU WILL LEARN

Structured Query Language (SQL)

Part 1

● **DATABASE BASICS AND SCHEMA**

Database
Table
Set of Tables
Primary and Foreign Key
Data types
Schema

● **MANAGING DATABASE AND TABLES**

Database Creation
Show Database
Drop Database
Crete Table
Describe Table
Alter Table
Delete Table
Create Primary Key
Create Foreign Keya

● **POPULATING DATA**

Setting up Database and Tables
Add data to table
Where clause
where clause examples
Arithmetic Operator and Expressions
Comparison Oprerators and simple condition
LogicalOperators and Operator Precedence
Updata table data
Delete data from table
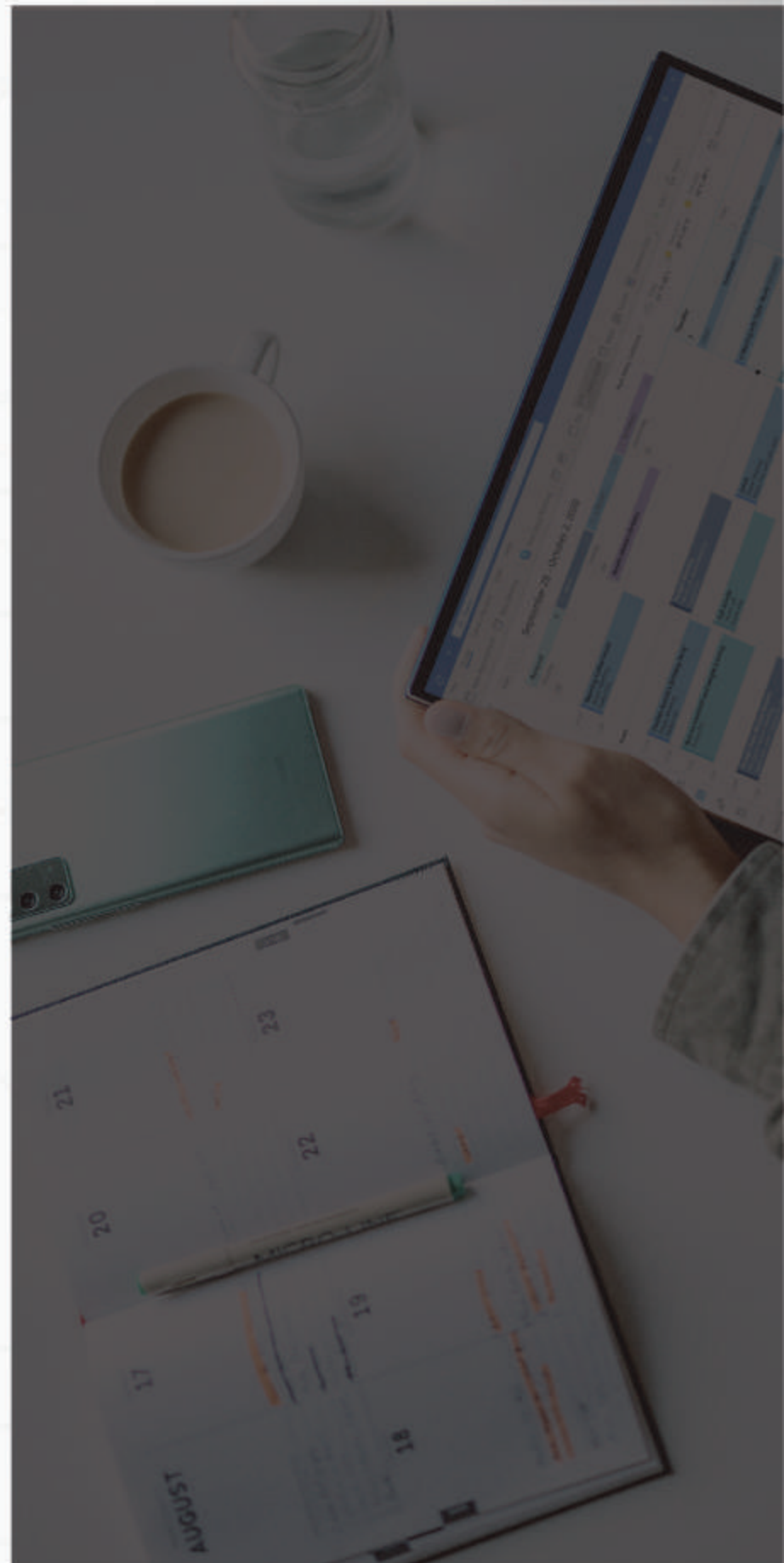
SKILLS YOU WILL LEARN

Structured Query Language (SQL)

Part 2

● RETRIEVING DATA

Simple Select
change column Header
Select Specific Columns
Select Distinct Columns
Sorting the Data
Retrieve data from multiple Tables

● FUNCTIONS AND CREATING SUB-TOTALS

String Functions
Mathematical Functions
Date Functions
Logical Operators
Null Data
Group By clause
Group Functions
Having Clausea

● SUB QUERIES

Sub-Queries in Select
Sub-Queries in where
Sub-Queries in where - Any Operator
Sub-Queries in where - All Operator
Sub-Queries using exists operator
Sub-Queries in Insert

CERTIFICATION
& REGISTRATION

CERTIFICATE

Training Completion Certificate

Internship Certificate

Letter of recommendation

Internship Program Registration

Duration of the Course: 1.5 Months

How to Register:

Step 1: Attend the free orientation to get the detailed information about our internship program.

Step 2: Final Registration Form will be provided in the orientation itself

TCR INNOVATION   EMAIL - tcrinnovation@gmail.com