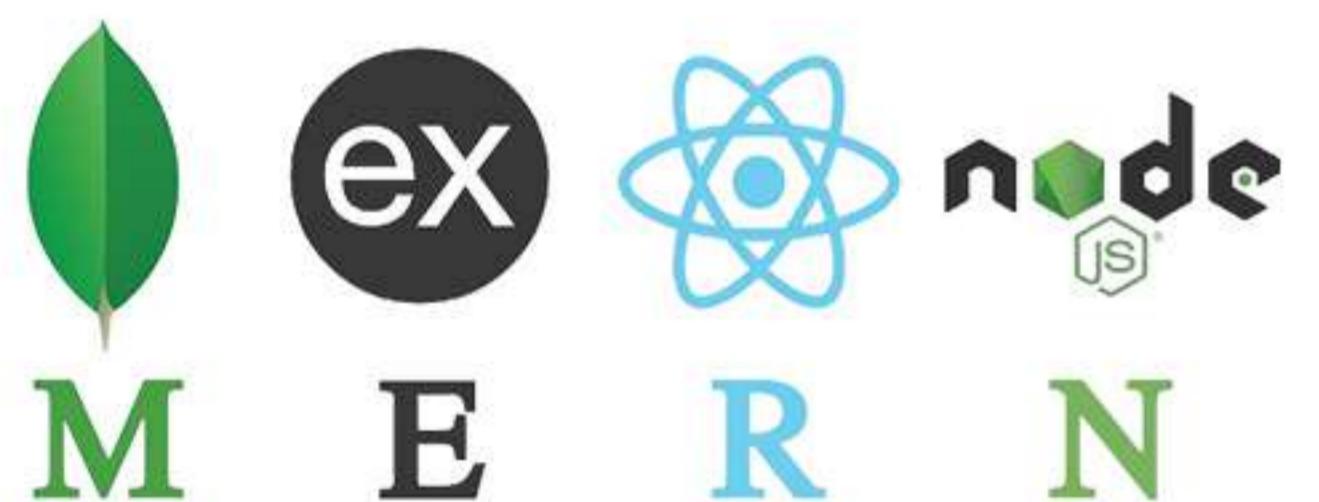


**SOFTWARE
PROGRAMMING**

FULL STACK DEVELOPMENT



COURSE CURRICULUM



100%*
Placement Assistance



INTENSIVE & INDIVIDUAL ATTENTION

Individual hand-holding and mentoring to ensure optimal productivity and engendering genuine curiosity leading to prompt, effective query addressing



SKILLING WITH COURSERA COURSES

Certification with over 75 industry-certified skill development courses from Coursera during the course



DESIGN THINKING

Inculcating an effective problem-solving mindset through empathy, critical thinking skills, ideation abilities, creativity, logical reasoning, interpersonal and effective communication and presentation skills



CERTIFIED PSYCHOLOGISTS' SUPPORT SESSIONS FOR EMOTIONAL WELLBEING

Self-awareness, self-reflection and self-discipline



INTERNSHIP OPPORTUNITIES

2-3 months of internship opportunities integrated with a robust 100% placement support system up to landing a job

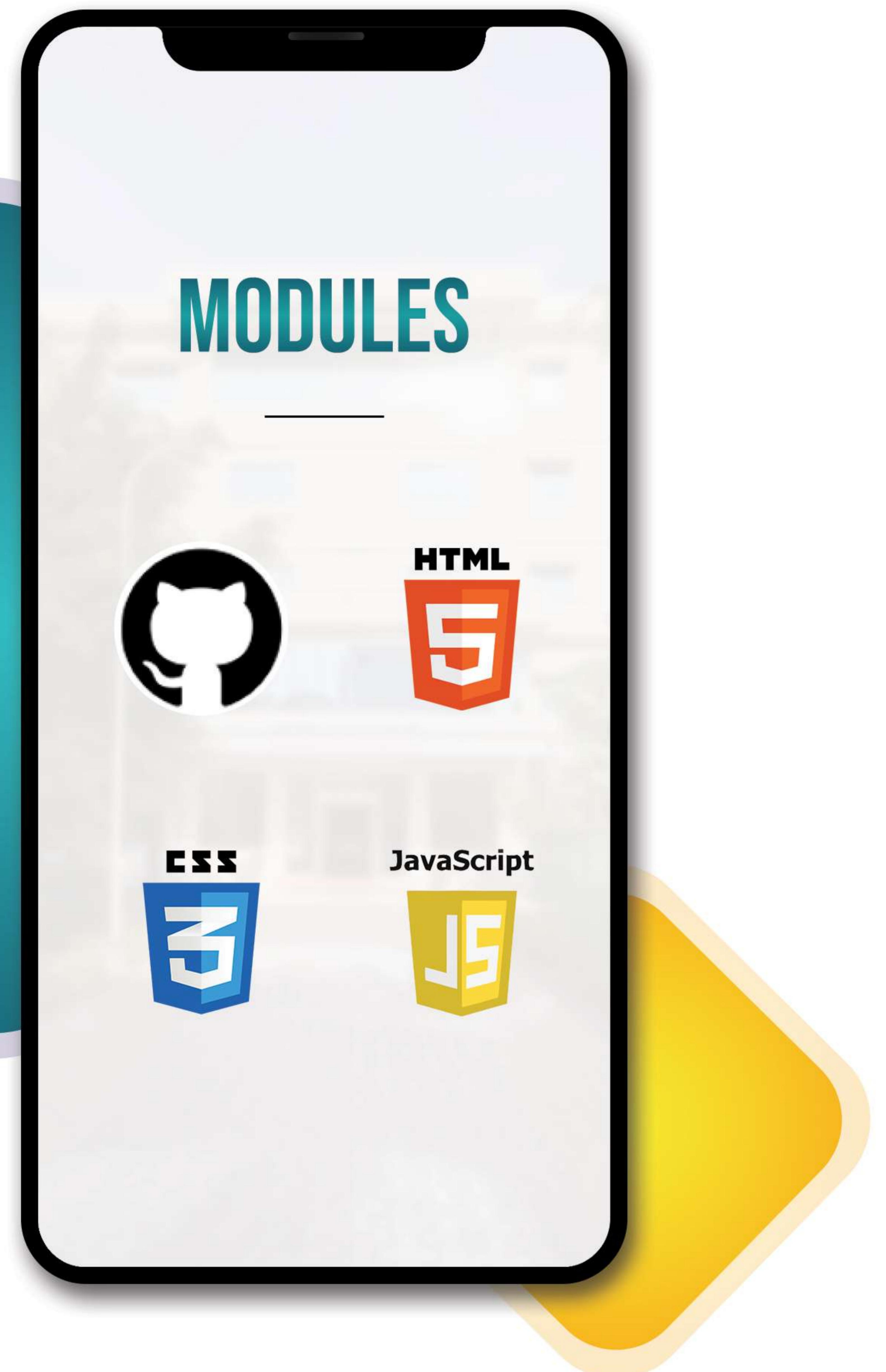


FLEXIBLE FINANCE

Options to pay now or later or in installments

- **LEVEL I - FRONT-END TECHNOLOGIES**
- **LEVEL II - BACK-END TECHNOLOGIES**
- **LEVEL III - FRAMEWORK**
- **CAREER READY PROGRAMME**
- **CERTIFICATION**
- **milestone ASSESSMENT**





- **LEVEL I - FRONT-END TECHNOLOGIES**
 - Tech Foundation
 - HTML & CSS
 - Bootstrap
 - Responsive Web Design
 - JavaScript

LEVEL I : MODULE I TECH FOUNDATION

- Introduction to Number Systems
- Computer Hardware
- Operating System
 - Process Management
 - Thread and Concurrency
 - Memory Management
- Introduction to Computer Networks
 - Network Layer
 - Transport Layer
 - Application Layer
- Getting Started with Command line
 - Working with File Systems
 - Working with Files
 - File Commands
- Git Versions
 - Repository Creation
 - Command Line Command for GitHub
- Cloud Integration
- Introduction in AWS

LEVEL I : MODULE II

HTML AND CSS



- HTML Elements
- Introduction to CSS (properties)
 - Text Properties
 - Background Properties
 - Heading and Text Element Properties
 - Font Family and its Properties
 - CSS Box Module

◆ LEVEL I : MODULE III ◆

BOOTSTRAP AND RESPONSIVE WEB DESIGN

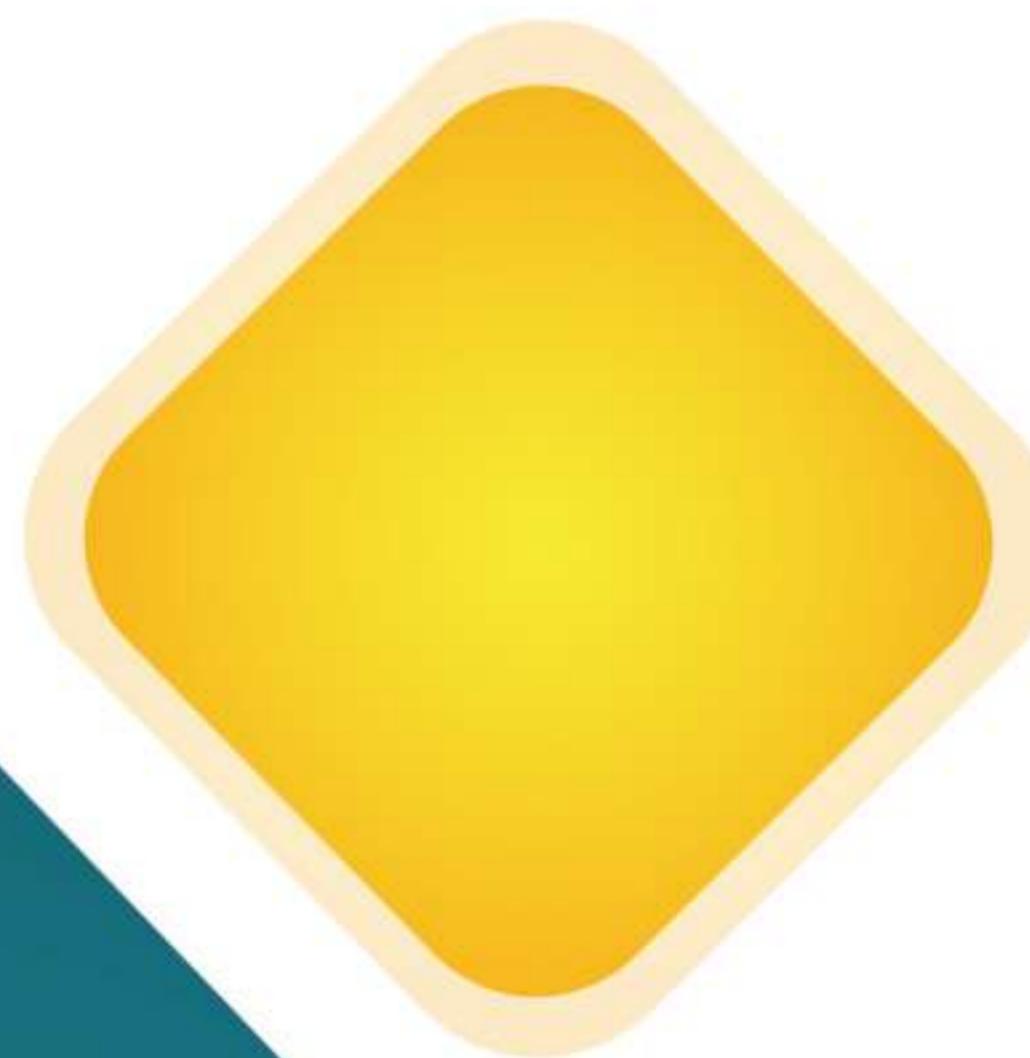
{B}

- Bootstrap, Design Layout and Integration
 - Introduction to Bootstrap
 - Flex Box Container
 - Design Layout
 - Developing Layout
 - Media Query
- Responsive Web design
 - Grid System
 - Box Properties in Bootstrap
 - Navbar in Bootstrap
 - Inheritance
 - CSS Ruleset

LEVEL II : MODULE I

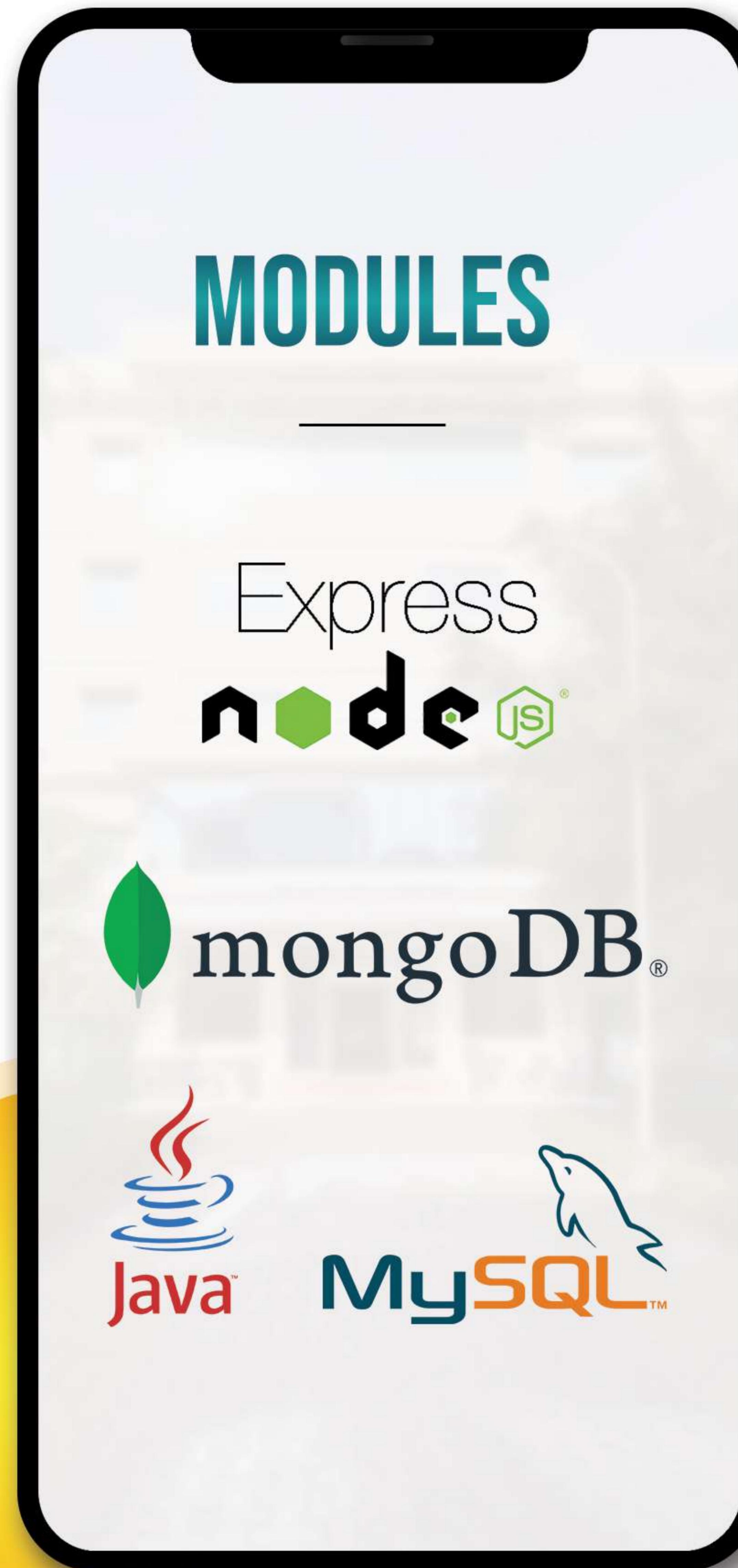
JAVASCRIPT

- Introduction to JavaScript
- Data Type
 - var, let, const, scope
- DOM Manipulation
- Functions and Type Conversion
 - Getter & Setter function
 - this keyword
 - Date Function
 - Array Functions
 - string function



- **LEVEL II - BACK-END TECHNOLOGIES**

- Core Java
- MySQL
- MongoDB
- Node JS
- Express JS



◆ LEVEL II : MODULE I ◆

CORE JAVA (ORACLE CERTIFIED Associate)



- Working With Java Data Types
- Using Operators and Decision Constructs
- Creating and Using Arrays
- Using Loop Constructs
- Working with Methods and Encapsulation
- Working with Inheritance
- Handling Exceptions
- Working with Selected classes from the Java API
- Data Structures using JAVA

◆ LEVEL II : MODULE II ◆

MySQL (ORACLE CERTIFIED Associate)



- Connectors and APIs
 - Choose between connectors for a given application
 - Demonstrate connector use, management and configuration
 - Retrieve data from the database by using a connector
 - Handle special values
 - Secure credentials and connections
- Data-driven Applications
 - Use prepared statements
 - Set SQL Modes to change MySQL behaviour
 - Handle and interpret errors and warnings
 - Display query results
 - Aggregate and summarize data
 - Advanced Report Generation

- MySQL Schema Objects and Data
 - Design, Create and Alter Views
 - Store and process String Data
 - Store and process Numeric Data
 - Store and process Temporal Data and Spatial Data
- Transactions
 - Control transactions in SQL
 - Control transactions in applications
 - Resolve consistency problems with isolation levels
 - Understand locking mechanisms within MySQL
- Query Optimization
 - Use indexes for optimization
 - Analyze queries for optimization
 - Rewrite queries for optimization
- MySQL Stored Programs
 - Create and execute stored routines
 - Explain the programming constructs used in stored routines
 - Create and execute triggers
 - Schedule database operations
- JSON and Document Store
 - Create and store JSON documents
 - Process data in JSON documents
 - Explain application development with NoSQL and XDevAPI
 - Create and access a document store

LEVEL II : MODULE III

MongoDB



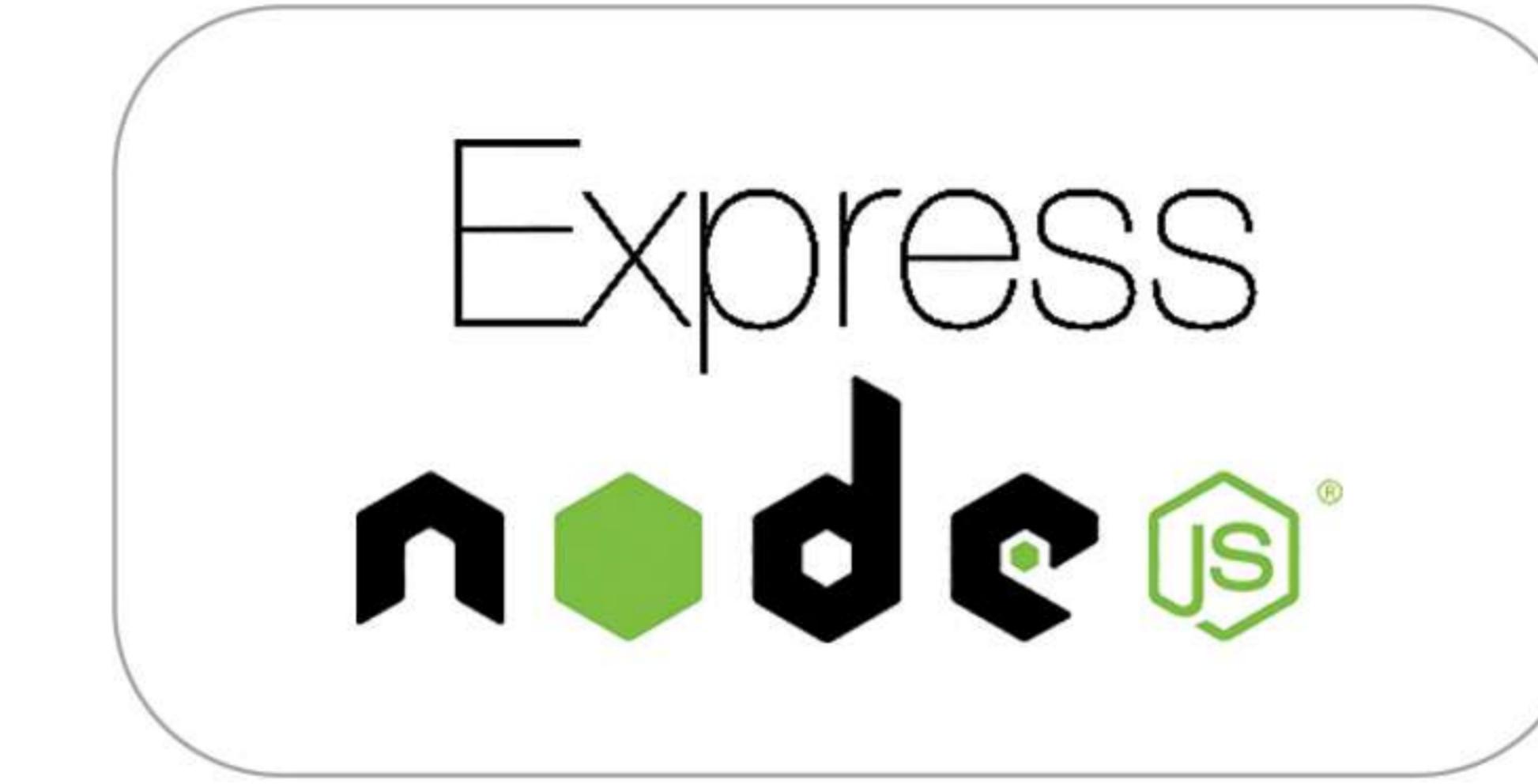
- MongoDB Overview
- MongoDB Installation
- Data Formats in MongoDB
- Collection Creation and Document Insertion
- Finding Documents
- Updating Documents
- Deleting Documents
- Advanced MongoDB Features



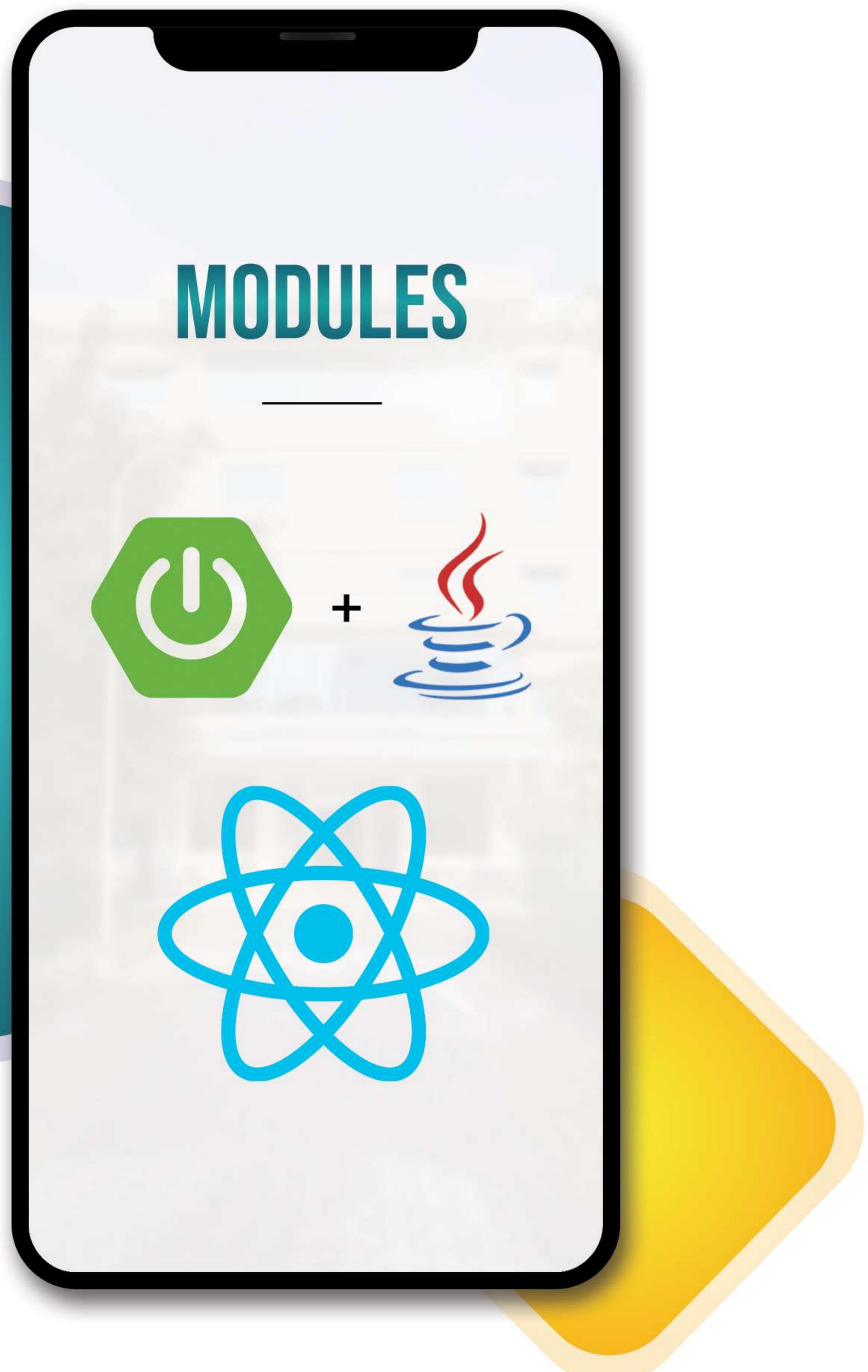
LEVEL II : MODULE IV

NODE JS AND EXPRESS JS

- HTTP Request and response
- Installation and exploring
- module (npm) version
- Installation and handling
- Global packages
- Working with JSON, arrow function



- Modules in Node JS
 - FS Module
 - OS module
 - Event Module
 - BufferStream Module
 - HTTP Module
- Express JS
- Express - Export modules
 - File Upload
 - Scheduler



- **LEVEL III
FRAMEWORK**
 - Modern JS
 - JAVA Spring Boot
 - React JS

LEVEL III : MODULE I

MODERN JS

Modern
JS

- ES6 Module
- Destructuring and Spread Operator
- Local Storage
- History Objects and Session Variables
- JSON formats and Arrays of Object Manipulation
- Regular Expression
- FormData()



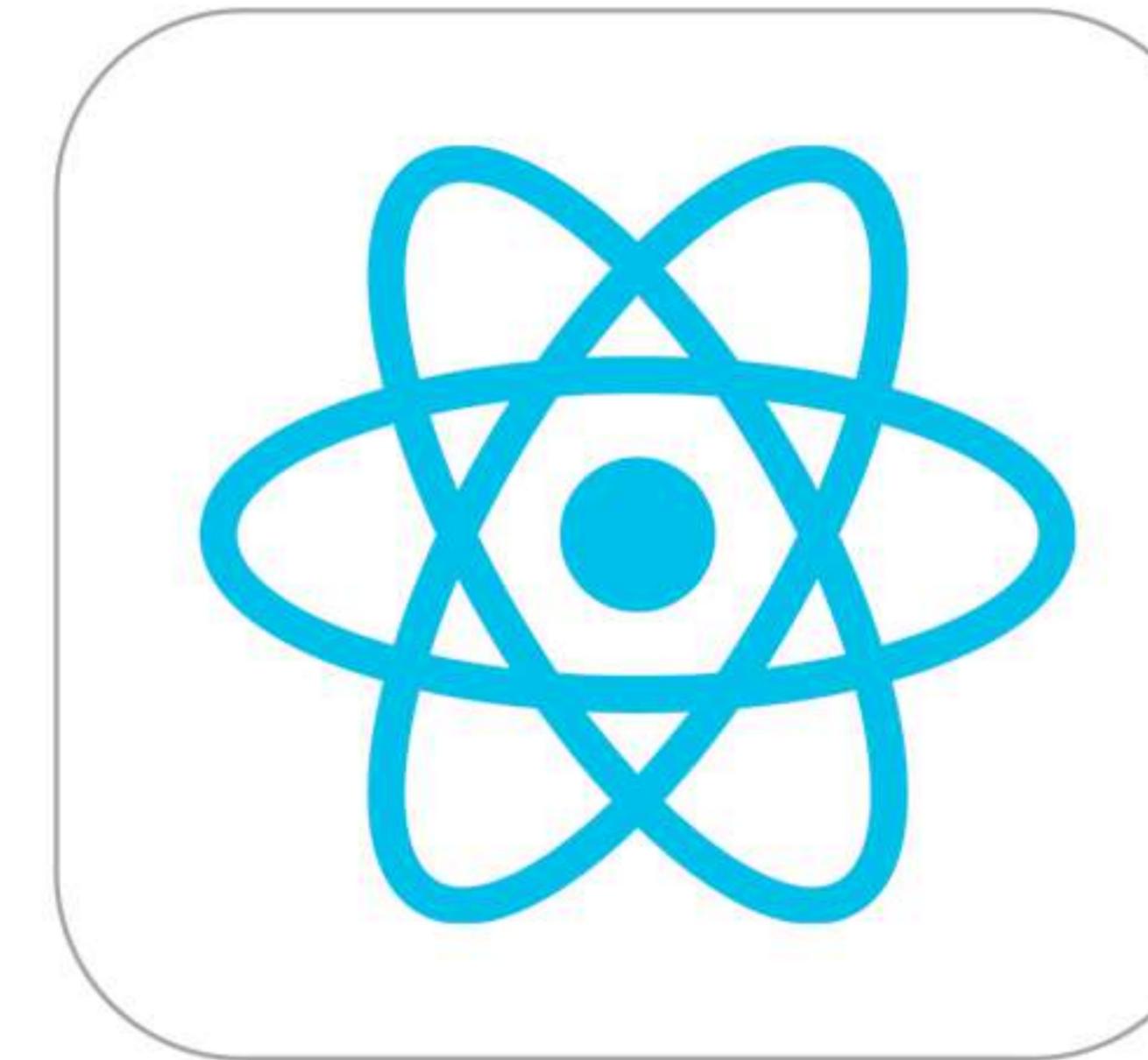


LEVEL III : MODULE I

Java Spring Boot

- Introduction
- Building a RESTful Web services
- Serving Web Content with Spring MVC
- Spring Boot - Creating web application using Spring MVC

LEVEL III: MODULE III REACT JS



- Introduction to React JS
- Component's Life Cycle
- Handling User Input
- State and Props Variable
- Hooks, functional and Class Component
- SASS
- Debugging React APP
- Building Adaptive User Interfaces and Sending HTTP Requests

◆ LEVEL IV: CAREER READY PROGRAMME

- Design Thinking
- Quantitative Aptitude
- Logical Ability
- Verbal Aptitude
- Communication
- Emotional Well Being
- Yoga

SKILLING WITH COURSERA

- Computational Thinking for Problem Solving
University of Pennsylvania
- Programming with Scratch
The Hong Kong University of Science & Technology
- Become a JavaScript Pro with these 7 Skills
Coursera Project Network
- Git for Developers Using Github
Coursera Project Network
- Introduction to Databases for Back-End Development
Meta
- Meta Front-End Developer
Meta
- Phase 1 - HTML - Full Stack Development (MERN)
KGiSL Educational Institutions
- Style Sheets - CSS - Full Stack Development / Web Development
KGiSL Educational Institutions

Professional Certification from META

Meta Front-End Developer consists of 9 certifications





PROJECT



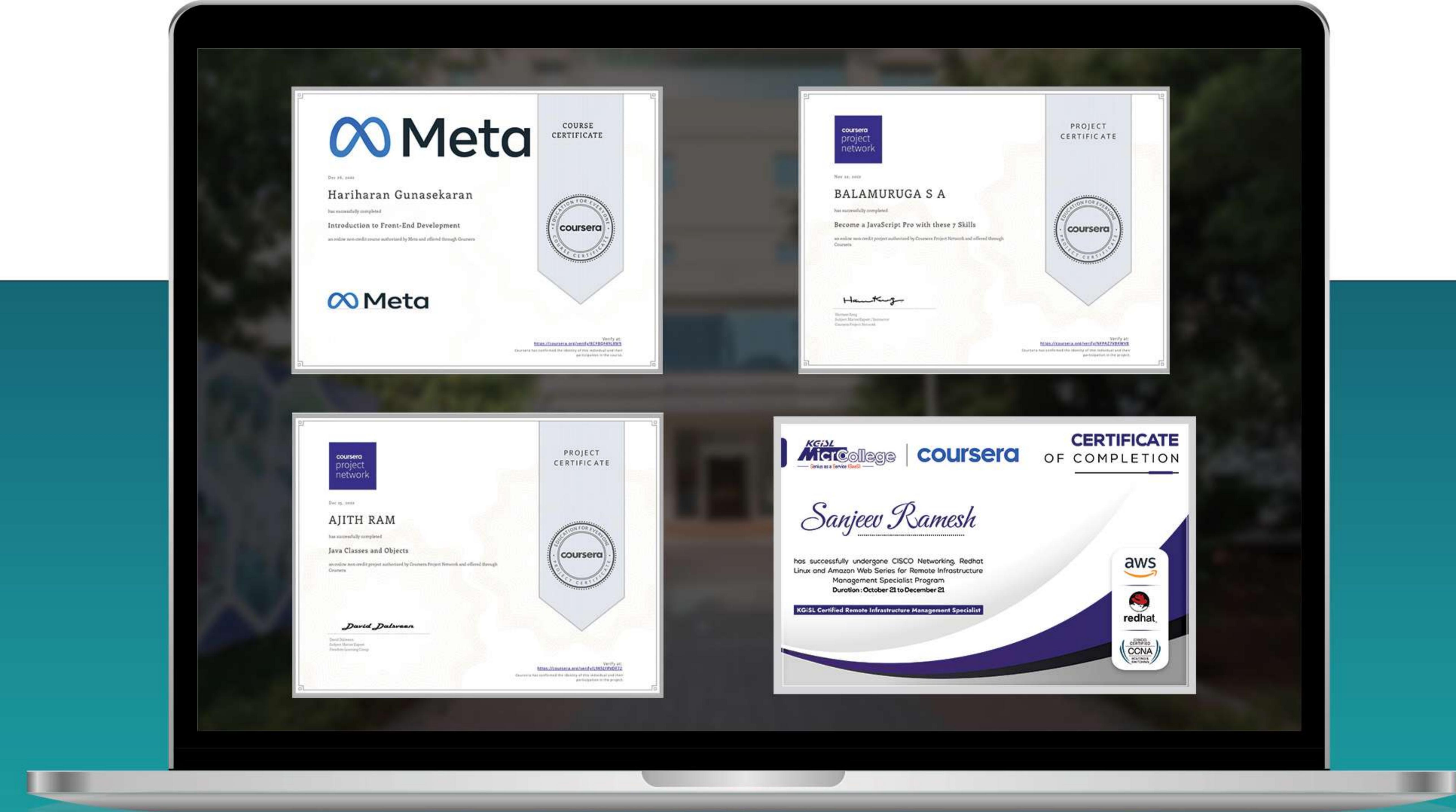
MILESTONE ASSESSMENT

- UI Design Skill - **26th Day**
- Problem Solving Skill with DB - **51st Day**
- Backend Technologies - **70th Day**
- Mock Interview - **80th Day**



CERTIFICATION

- Professional Certification offered by Meta
 - Name of the Certificate : Meta Front-End Developer
 - Number of Courses : 9
- Specialization Certificate offered by Hong Kong University of Science and Technology
 - Name of the Certificate : Full Stack Web Development with React
 - Number of Courses : 9
- Guided Projects
 - Become a JavaScript Pro
 - Git for Developers using GitHub

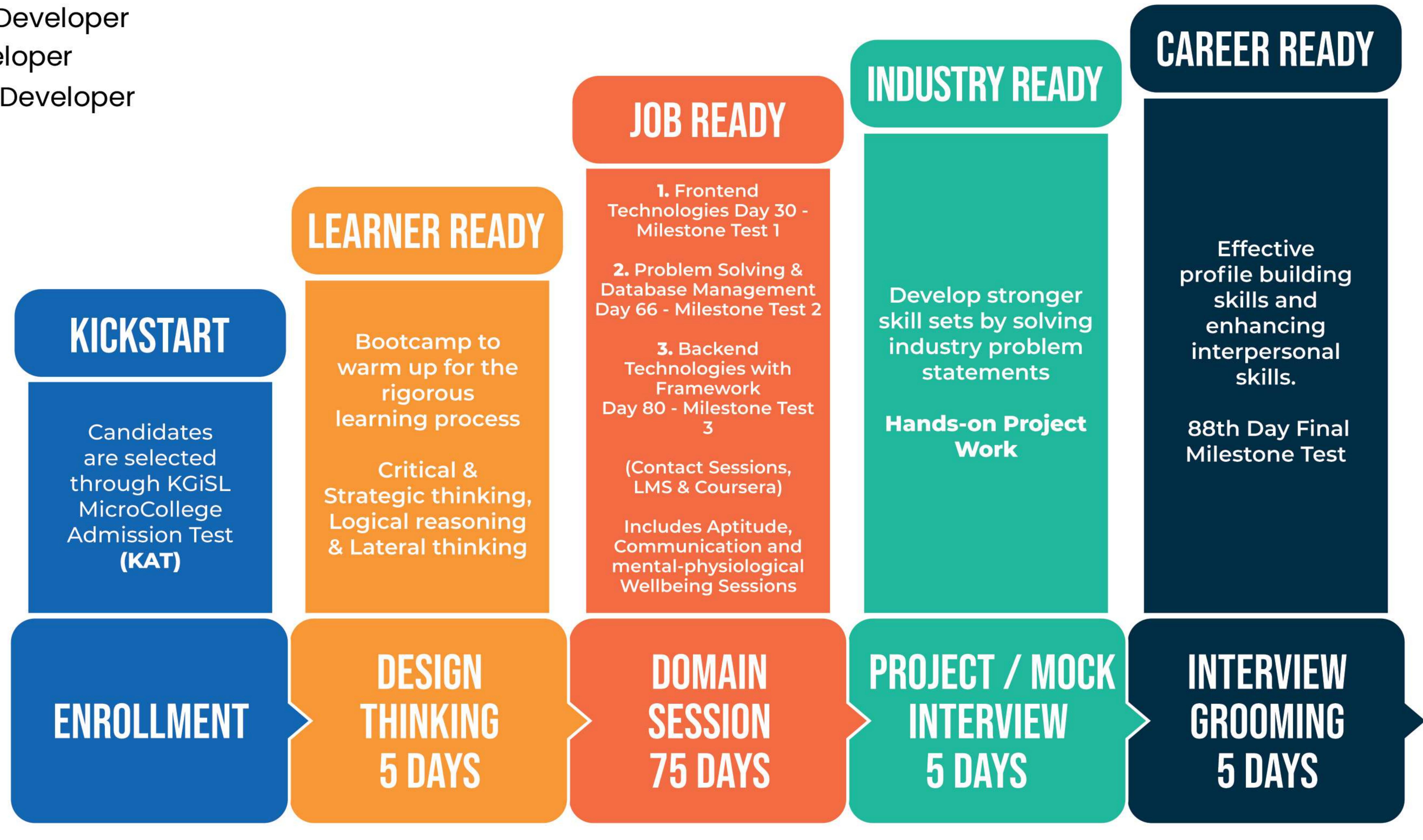


Professional Certification from META
 Meta Front-End Developer consists of 9 certifications

FOUR STEP CAREER READY STRATEGY PLAN

Software Developer
 Web Developer
 Full Stack Developer

Transformation Process ↑



Time 90 Days →

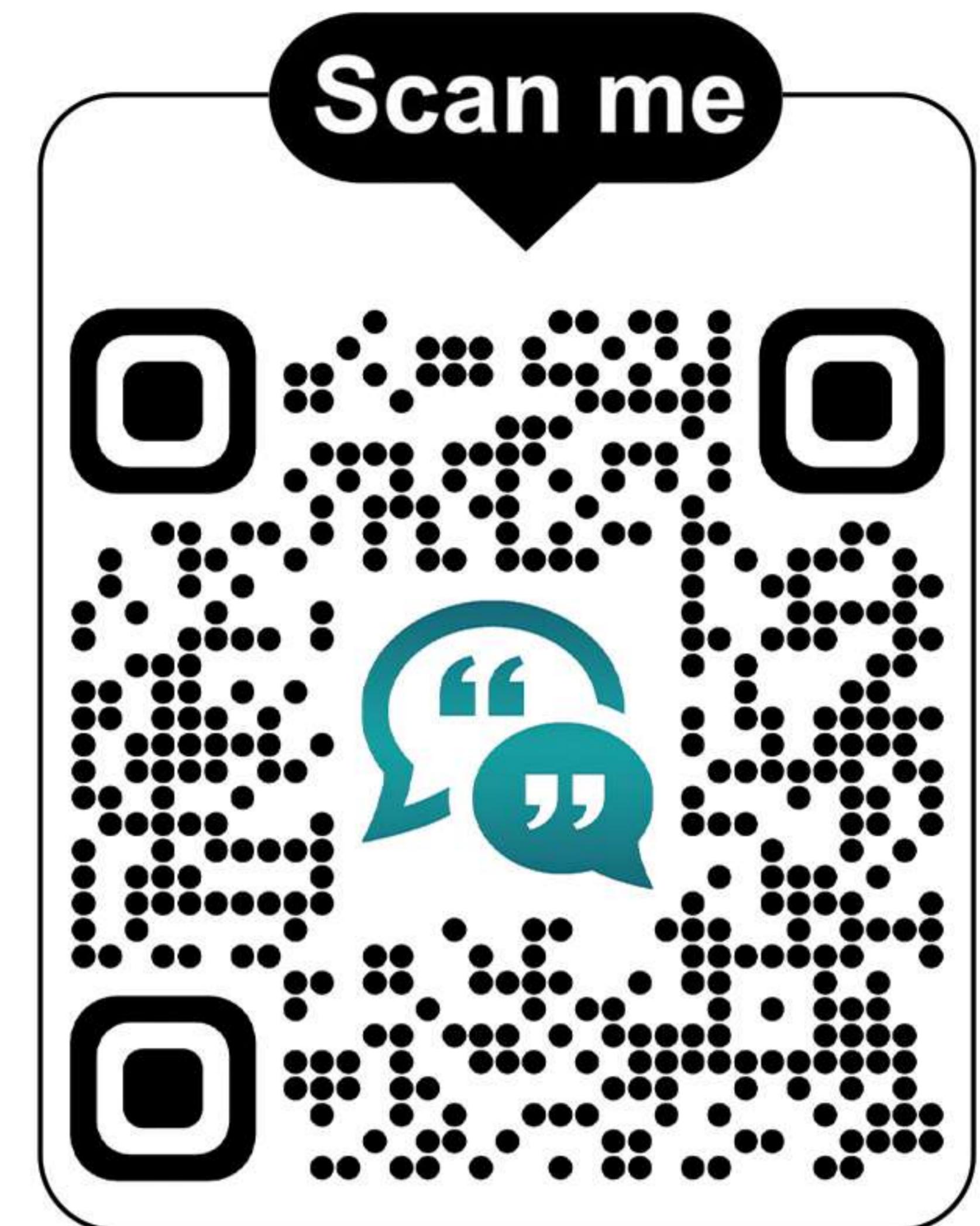
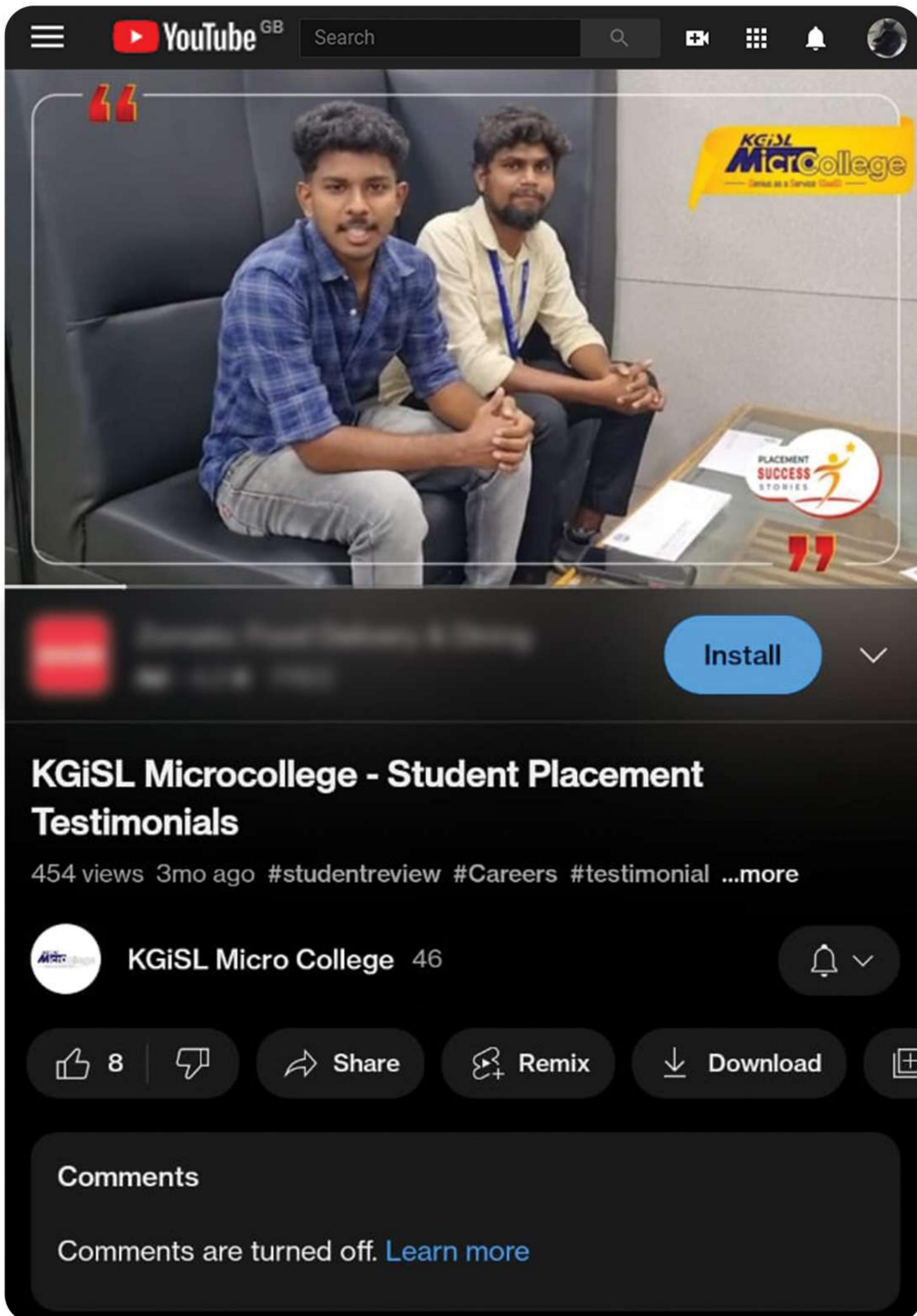
INDUSTRY-READINESS CERTIFICATE



BATCH TYPE	THEORY	PRACTICE (Classroom + Homework)	MILESTONE ASSESSMENT	CREDIBILITY	DURATION
Weekend Batch 6 months	384	156 + 270	KAT, Pre-Onboard Test, M1, M2, Mock Test	2 Specialization (Meta & Hong Kong University) 5 Courses	9hrs on Saturday & Sunday 9hrs One Friday 2hrs Online 9hrs per Month 6 Months
Evening Batch 5 months	384	226 + 200	KAT, Pre-Onboard Test, M1, M2, Mock Test	2 Specialization (Meta & Hong Kong University) 5 Courses	5hrs per Day + 6 Days 120hrs Day - 5 Months
Regular 3 months	384	426	KAT, Pre-Onboard Test, M1, M2, Mock Test	2 Specialization (Meta & Hong Kong University) 5 Courses	9hrs per Day - 90 Days

100%*
Placement Assistance

TESTIMONIALS





KGiSL MicrCollege

— Genius as a Service (GaaS) —



BRANCH OFFICE : 173, 9th Floor, Block 'B',
Navin's Presidium, Nelson Manickam Road,
Aminjikarai, **Chennai** - 600 029
Landmark : Behind Ampa Skywalk Mall



63800 07183

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KGiSLMicroCollege



microcollege.in

HEAD OFFICE : KGiSL Campus, Coimbatore

OTHER BRANCHES : Thrissur & Bengaluru