Cyber Square®

PROFESSIONAL

where your IT work experience starts

CS DIPLOMA IN MOBILE APP DEVELOPMENT (FLUTTER)

COURSE BROCHURE

Duration: 6 Months

Lecture sessions: 72 Hands on
Assignments/projects Soft Skill Sessions

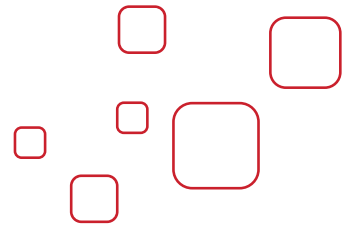**200** Institutes

12 Countries

1M Students

Empowering Tomorrow's High–Paying workforce
with Internship–Driven Industry Experience

ORAY
EDUCATION

https://cybersquare.pro/

About Cyber Square Professional

Immerse yourself in a unique learning experience where the virtual meets the real-world. Our courses go beyond conventional training, simulating a dynamic working environment that mirrors a global software company. Interns, dispersed worldwide, collaborate seamlessly on real projects, bringing the virtual workspace to life.

This international exposure not only sharpens the technical skills but also instills the collaborative spirit needed in today's interconnected software development landscape. Soft skills sessions are also seamlessly integrated, ensuring a holistic learning experience. Get ready to thrive in a virtual company setting, acquiring invaluable experience that transcends geographical boundaries.

NP HARIS

Conceptualizer & CEO

OUR CEO'S MESSAGE

Dear Future Software Engineers,

For over 12 years, CyberSquare Professional has been a leader in technology training, dedicated to producing quality software engineers. Our experience has enabled us to create a unique learning experience that bridges the gap between academic learning and real-world industry demands.

Introducing CS Pro, our state-of-the-art virtual company environment hosted in the cloud. Here, interns from around the globe collaborate on real-world products, gaining invaluable hands-on experience.

In CyberSquare Pro, you join a project team, receive daily lectures, and work under a Product Owner (PO) and Scrum Master in a real Agile environment. You will actively contribute to product development, enhancing features based on backlogs and roadmaps.

We believe that working on actual projects in a real Agile environment is the best way to truly understand the role of a software engineer. This hands-on experience is unmatched and ensures you are well-prepared for your future job.
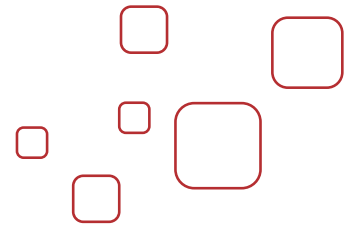
In addition to technical training, we focus on developing soft skills, human skills, and adhering to ethical standards in software development. This holistic approach ensures you are a well-rounded professional.

Join us at CyberSquare Pro and experience the most effective way to become a skilled software engineer. Let us help you build a successful career.

NP Haris

"Mastery in software development comes from hands-on experience. On-the-job training turns knowledge into skill and potential into excellence."
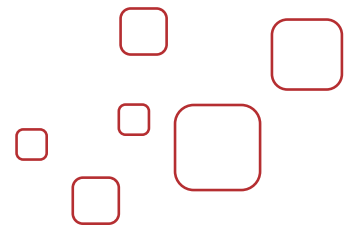
About the Course

Embark on an exhilarating journey into the realm of cross-platform mobile app development with our Diploma in Flutter Development course. Flutter stands as a versatile framework renowned for crafting high-performance mobile applications, and this program is meticulously designed to unlock its full potential. From mastering the art of UI design to seamlessly integrating third-party APIs, you'll delve into the intricacies of Flutter development through a blend of theoretical insights and hands-on practice. With expert guidance and immersive projects, you'll acquire the proficiency needed to emerge as a skilled Flutter developer, breathing life into your app concepts and establishing yourself as a leader in mobile app innovation.

Immerse yourself in Flutter's intuitive declarative UI framework and revolutionary hot reload and hot restart feature, facilitating lightning-fast iteration and development cycles. Harness the power of Flutter's extensive widget library and platform-specific APIs to craft visually stunning and high-performing mobile applications, ensuring seamless compatibility across both iOS and Android devices. With Flutter as your tool of choice, you'll streamline your development process while maximizing your app's impact and appeal in the ever-evolving mobile landscape.

In addition to mastering Flutter, our course also covers the powerful backend framework, Nest.js. Nest.js is a progressive Node.js framework for building efficient, reliable, and scalable server-side applications. It leverages TypeScript and combines elements of OOP (Object-Oriented Programming), FP (Functional Programming), and FRP (Functional Reactive Programming), making it a robust choice for backend development. By integrating Nest.js with Flutter, you'll be able to create full-stack applications that are not only high-performing but also maintainable and scalable.
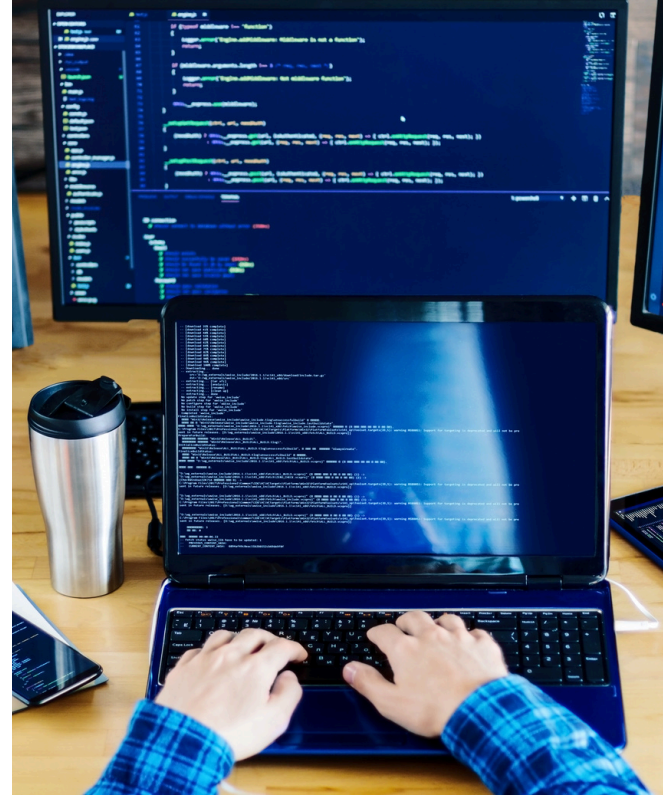
Reasons to Learn Flutter

Attractive Compensation

Flutter developers are in high demand, leading to competitive salaries. According to various salary surveys and job portals, Flutter developers can earn salaries comparable to or higher than those of other mobile app developers. There is also a thriving market for freelance Flutter developers, offering additional earning potential through project-based work.

Average Annual Salary
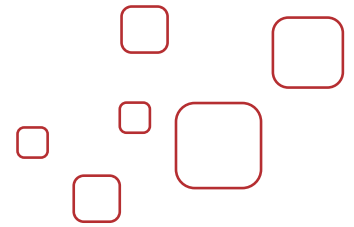
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Growing Popularity

Flutter is becoming increasingly popular among developers and businesses for building cross-platform applications. Companies are adopting Flutter to reduce development costs and time by using a single codebase for both Android and iOS.

Major companies like Google, Alibaba, and BMW use Flutter for their apps, indicating strong industry support and demand for Flutter developers.

Expanding Job Opportunities

The demand for Flutter developers is global, with opportunities in various regions including North America, Europe, and Asia. This global demand ensures a broad spectrum of job opportunities.

Both startups and large enterprises are looking for Flutter developers, increasing the variety of job opportunities and allowing developers to choose environments that suit their preferences.

Efficient Development Process

Flutter allows developers to write one codebase that can be used to create applications for both Android and iOS, significantly reducing development time and effort.

Flutter's hot reload feature enables developers to see changes instantly, speeding up the development process and making it easier to experiment with and refine the app's design and functionality.

Future-Proof Skills

- **Constant Updates and Improvements**: Flutter is backed by Google, which continually updates and improves the framework, ensuring it remains relevant and up-to-date with the latest technological advancements.

- **Versatility**: Learning Flutter also involves learning Dart, a versatile programming language. Skills in Dart can be applied to other Google-backed technologies and projects, expanding career opportunities.

Advanced Technology and Features

Flutter uses the Dart programming language, which compiles to native code, resulting in high-performance applications. Its rich set of widgets allows for creating visually appealing and smooth UIs.

Flutter's widget-based architecture allows for high flexibility and customization, making it possible to create unique and responsive designs.

Strong Community and Ecosystem

Flutter has a growing and active community of developers who contribute to a rich ecosystem of packages and plugins, making it easier to find solutions and get support.

Google provides extensive documentation and resources for Flutter, ensuring that developers have access to high-quality learning materials and support.

Who should take this course?

Flutter for whom?

This course is ideal for coding enthusiasists looking to efficiently create high-performance, cross-platform mobile applications, as well as those seeking to expand their skill set with the increasingly popular Flutter framework.

☐ Beginners with no prior knowledge of Flutter

☐ Individuals familiar with Flutter basics seeking to master it
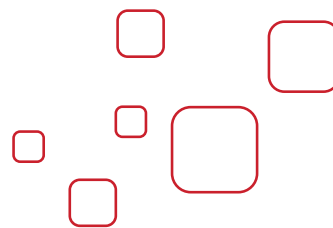
☐ Students

☐ Freelancers

☐ Those interested in roles such as Mobile App Developer, Software Engineer, UI/UX Designer, and Cross-Platform Developer

☐ Entrepreneurs

Student Intern Status – International Point System

Embark on a structured learning journey with our **International Point System**, an essential aspect of our internship placement process.

By integrating activities such as LinkedIn profile creation, StackOverflow participation, and project development, this system encourages a comprehensive development approach, preparing students for successful careers.

This system not only establishes a standardized evaluation process but also motivates students to excel in their internship, enhancing their preparedness for future professional endeavors. Embrace the International Point System and set yourself on the path to a rewarding placement experience.

Point Accumulation

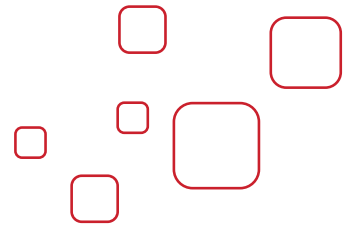Students earn points by successfully fulfilling the required tasks and objectives.

Mandatory Requirements

To be eligible for the placement process, students must complete a set of mandatory items outlined in our International Point System.

Minimum Required Points

Meeting the minimum required points is essential for students to qualify for the placement process. This ensures a fair and competitive environment.

https://cybersquare.pro/

Course content

Sprint 1

- LMS account creation, basic session
- Computer basics, computer architecture, input/output units. software, OS, cmd commands, shell commands, network, basic network commands
- Programming concepts, machine language, high level language, translators, programming language, framework, variables
- Operators, types of operators, introduction to git and GitHub
- GitHub collaboration
- Introduction,Flutter installation & configuration of flutter,Create a flutter app (counter app)
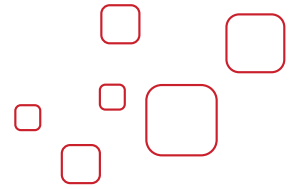
Project

- Project Intro Session
- Project Setup
- Basics of Dart and Flutter

Sprint 2

- Flutter file structure, Genymotion Installation and configuration, and run the application in Genymotion
- Introduction to dart, DartPad online IDE, Dart SDK installation, Data types and variables, Operators in Dart
- Decision making statements(if, if else, else if) , Switch statement, Loops (for, while, do while)
- Types of functions in Dart, Function arguments
- Oops

Project

- Frontend folder structure & Code Familiarization
- Git Branching concepts

Sprint 3

- Exceptions and Debugging
- Asynchronous programming: futures, async, await
- Asynchronous programming: Streams
- Styles and Assets
- Model API data in Flutter

Project

- REST Api Concepts
- Task Assignment
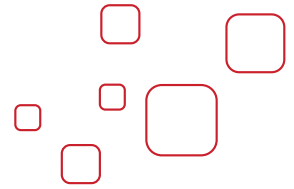- Scrum and Sprint review

Sprint 4

- WhatsApp Clone

Project

- Basic concepts of State Management and JWT
- Scrum and sprint review

Sprint 5

- Very_good CLI
- Introduction to firebase
- Firebase with Flutter
- Firebase Authentication
- Firebase database & CRUD operations

Project

- Workflow familiarization of an existing feature
- Scrum and Sprint review

Sprint 6

- Firebase storage with flutter
- Firebase cloud messaging
- Introduction to bloc,Cubit Vs Bloc
- Bloc provider, Bloc builder, Bloc listener & Bloc consumer

Project

- Scrum and Sprint review

Sprint 7

- Bloc Architecture,Bloc to Bloc Communication
- Equatable usage in BLOC
- Ecommerce app implementation using Bloc

Project
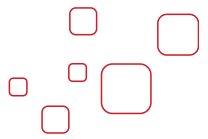
- Scrum and sprint review

Sprint 8

- Very_good_analysis, shared_preferences,
- getx, animation
- Very_good_analysis, shared_preferences,
- getx, animation
- http(get, post, put, delete)
- Screen Util, lint, font awesome, Syncfusion,
- Url_launcher package_info
- Channel Communication in flutter
- Application release to Play Store

Project

- Scrum and sprint review

Sprint 9

- Voice recorder app,Razorpay Integration
- Bloc Testing & Debugging
- Integration testing,Unit testing & Widget testing
- Introduction to MongoDB, basic CRUD operations

Project

- Scrum and Sprint review

Sprint 10

- Introduction to NestJS, What is NestJS, Why use NestJS for backend development, Features and benefits of NestJS
- Setting Up NestJS Environment, Installing Node.js and npm, Creating a new NestJS project, Exploring the project structure
- Understanding Controllers and Routes, Introduction to controllers in NestJS, Creating and managing routes, Handling HTTP requests and responses
- Dependency Injection and Providers, Understanding dependency injection in NestJS, Creating and using providers, Managing dependencies within NestJS applications
- Introduction to services and modules in NestJS, Creating and using services, Organizing code using modules in NestJS

Project

- Scrum and sprint review

Sprint 10 & 11

- Understanding middleware in NestJS, Implementing custom middleware
- Working with interceptors for request/response handling
- Managing errors and exceptions in NestJS, Implementing centralized error handling, Configuring logging in NestJS applications
- Flutter CRUD operations using NestJs and MongoDB
- Project (Flutter+MongoDB+NestJs)

Learning Path

STEP 1

Pokemon Project Onboarding

Onboarding into the project team, checking out the repository and setting up the environment.

Basics of computer science

Computer architecture and organization of Programming, Computer networking

STEP 2

STEP 3

Programing Concepts

Programming concepts, language translators etc

STEP 4

Git & Github

Using Git & Github for version control and collobaration.

STEP 5

Flutter and Dart

Introducing Flutter, Basics of dart programing, OOPS, flutter widgets

STEP 6
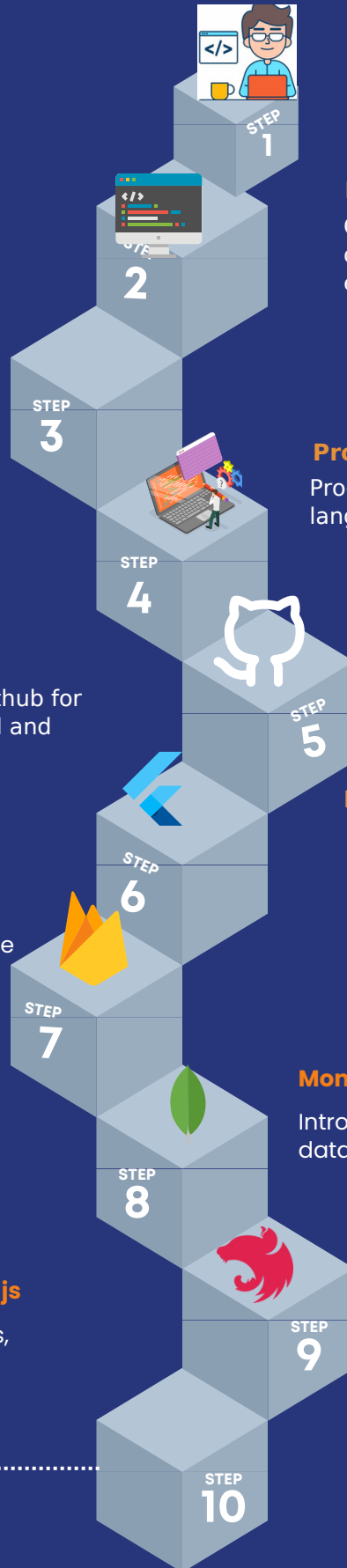
Firebase

Introducing Firebase, firebase aythentication, CRUD

STEP 7

MongoDB

Introducing MondoDB database, CRUD operations

STEP 8

Introduction to Nest js

Introduction to Nest.js, Controllers, Models

STEP 9

Completion Certificate

STEP 10

CERTIFICATE

Classroom-Level Immersion: Delivered Digitally

- Any Where, Anytime access
- Online Self learning
- Courses designed by alumni of IIT, NIT & IIM.
- CS Certificate Internship Certificate & UK Certificate
- CS Talent Show

Cyber Square Pro
Our Branch All Around World

ORAY EDUCATION

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where your IT work experience starts

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CANADA

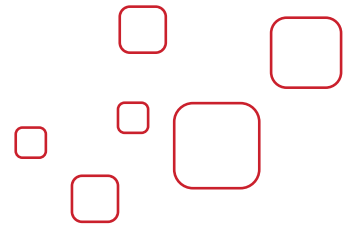299 Senator street, Pickering,
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More Information About us?

Contact Us!

Cyber Square Pro is a learning platform and resource hub for professionals looking to learn cutting-edge digital skills, whether they're coding novices or programming pros.

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Thank You!