| **CHERUSSERI ZAINUDHEEN MUSLIYAR MEMORIAL ISLAMIC & ARTS COLLEGE**  **APPLICATION for OFF COURSE \_MAY SEMESTER 2024** | | | | | | | | | |
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| ***SUBJECT*** | | | | | FLUTTER | | | | CREDIT |
| 2 |
| NAME OF STUDENT | | | | | CIC No | NAME | | | |
| 15483 | MOHAMMED ARSH KS | | | |
| CLASS | | | | | ALIYA 2 | | | | |
| TOTAL PERIODS IN SEMESTER | | | | | 72 | | | | |
|  | | | | | | | | | |
|  | **OFF COURSE MONTHLY STATUS** | | | | | | | | | | |
|  | MONTH | DESCRIPTION | | | | | STATUS & REMARKS OF GUIDE | DATED SIGNATURE | | |
|  |  | **PORTIONS** | | | |
|  | NOV 2023 | WEEK 4 | | * Learn the basics of Dart programming language. * Variables, data types, control flow, functions, and classes. | | |  |  | | |
|  | DEC 2023 | WEEK 1 | | * Advanced Dart concepts: async/await, futures, streams. * Exception handling in Dart. | | |  |  | | |
|  | WEEK 2 | | * Install Flutter and set up the development environment. * Create your first Flutter app. * Learn about Flutter widgets and the widget tree. | | |  |  | | |
|  | WEEK 3 | | * Dive deeper into Flutter widgets and layouts. * Learn about stateful and stateless widgets. * Explore commonly used widgets like ListView, GridView, Stack, etc. | | |  |  | | |
|  | WEEK 4 | | * Understand the Flutter layout system. * Styling and theming in Flutter. | | |  |  | | |
|  | JAN 2024 | WEEK 1 | | * Navigation in Flutter. * Learn about routes, navigation stack, and named routes. | | |  |  | | |
|  | WEEK 2 | | * Understand the importance of state management in Flutter. * Learn about setState, BLoC pattern basics. | | |  |  | | |
|  | WEEK 3 | | * Implement more advanced state management using Provider or Riverpod. * Explore other state management solutions like MobX or getX. | | |  |  | | |
|  | WEEK 4 | | * Fetch data from APIs using http package. * Handle JSON data and serialization/deserialization. | | |  |  | | |
|  | FEB 2024 | WEEK 1 | | * Explore local data storage using shared\_preferences or SQLite. * Learn about state persistence. | | |  |  | | |
|  | WEEK 2 | | * Animations in Flutter. * Understand custom animations and transitions. | | |  |  | | |
|  | WEEK 3 | | * Learn about Flutter's testing framework. * Explore testing widgets and business logic. | | |  |  | | |
|  | WEEK 4 | | * Work on a small to medium-sized project to reinforce concepts. * Implement user authentication and authorization. | | |  |  | | |
|  | MAR 2024 | WEEK 1 | | * Integrate third-party packages and plugins. * Optimize and debug your Flutter applications. | | |  |  | | |
|  | APRIL 2024 | WEEK 4 | | * Build a more complex project that incorporates multiple concepts. * Review and reinforce weak areas. * Prepare a portfolio with your projects. | | |  |  | | |

Off course proposal

(SUBJECT)

| **INTRODUCTION**  Social media connects billions of users who share different types of content. Flutter is a vital skill that lets us create amazing and adaptable apps for any screen and device with one codebase. This can help us improve our practical life. Flutter is also a key part of social media, as we can create and access various content, themes, agendas, and entertainment with it. As a Flutter student, I want to join the social media content creators and support Flutter with my apps. I think Flutter can help us reach more people and show our knowledge and expertise. |
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| **METHOD OF STUDY**  **●** Research: Searching and studying the relevant and reliable sources and materials for the Flutter project, such as books, articles, blogs, videos, etc.  ● Online class: Enrolling and attending the online courses and tutorials that teach Flutter and Dart skills, such as Flutter1, Udemy2, etc.  ● Tutorials: Following and practising the step-by-step guides and examples that demonstrate how to create an app using Flutter, such as Flutter Codelabs3, Flutter Cookbook4, etc. |
| **IMPORTANCE & OBJECTIVE**  ● Enhance my skills and knowledge in Flutter, which is a popular and powerful UI toolkit for building cross-platform applications.  ● Utilize the time I spend on the internet for productive things like this Flutter project.  ● Create engaging and beautiful apps that can adapt to any screen size and device type.  ● Showcase my portfolio and projects on the internet, where I have a wide range of audience and potential employers.  ● Keep up with the latest trends and technologies in the Flutter field.  ● Contribute to the open-source community and the Flutter ecosystem. |

| **MATERIALS**  **/TOOLS** | ● VSCODE  ● Node js  ● Firebase |
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| **ASSIGNMENT & PROJECTS** | * Portfolio App Using flutter |
| **REFERENCES** | ● YouTube  ● Field Expert  ● Flutter Document  ● Dart Document  ● Github |