



**SILVER OAK  
UNIVERSITY**  
EDUCATION TO INNOVATION



**IEEE**

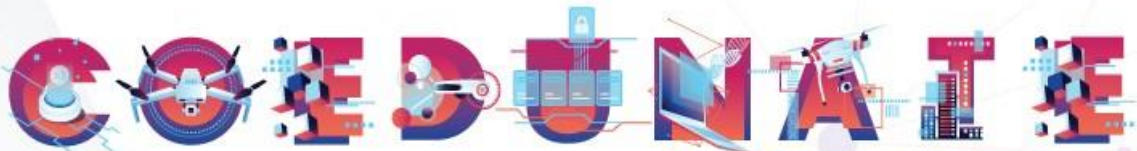
**Silver Oak University  
IEEE Student Branch**

A REPORT ON  
**Mobile App Development using Android**

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**Date:** 15<sup>th</sup> to 19<sup>th</sup> June, 2020  
**Place:** YouTube channel  
(Silver Oak University IEEE SB)  
**Time:** 5:00 to 7:00 PM

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Together We Learn

***Mobile App Development  
using Android***



## Introduction

CoEduate: Together We Learn, is an exclusive series of workshops organized by Silver Oak University IEEE Student Branch to encourage and support the technical advancement of the students to a wide range of technologies and platforms. All the events under this program are to be conducted by the student mentors of the SB. Moreover, after the completion of every event under the program, the participants will be given a small project for self-evaluation. Doubt solving after each session and mentoring for the projects will also be provided by the student mentors.

“Mobile App Development using Android” was the first event under the tag of CoEduate. It was a five-day workshop organized to understand the fundamentals of Android Studio along with the overview of UI development in application development with hands-on practice sessions for better understanding. More than 70 students participated in this workshop.

## Speaker Introduction

We had three of our talented student members of Silver Oak University IEEE Student Branch for conducting this workshop: Maharsh Patel, Malvik Chauhan, and Miral Songhela. Recently their team has launched the android application named “Silver Oak Edge” with over six hundred presently active users. The application is providing Multiple Choice Questions open for all GTU students with effective features like timer-based practice and autosave.

## About the Session

### Day 1

**Date:** 15<sup>th</sup> June, 2020

**Time:** 5:00 PM to 7:00 PM IST

**Channel Name:** Silver Oak University IEEE SB

The first session of the event Mobile App Development using Android was commenced by Maharsh Patel who began with the introduction of Android followed by an explanation of its key functionalities with different versions of android since the launch and the API levels. Later, Malvik Chauhan took the charge and explained various components of the Android Studio. This included a brief introduction to all the tools and navigations present in the android development software. The final segment of this session was carried by Miral Songhela, who briefly guided everyone with the basics of Intents, Activities, Layouts, Fragments, APIs etc. The session ended with a fun Kahoot quiz.

## Day 2

**Date:** 16<sup>th</sup> June, 2020

**Time:** 5:00 PM to 7:00 PM IST

**Channel Name:** Silver Oak University IEEE SB

On the second day, Maharsh Patel gave a quick recap of the first session to gain momentum. Miral Songhela then began the session by talking about Activity Lifecycle, methods, and how it works in Android. Further, he explained the basic components and 6 types of layouts with a hands-on activity covering all of them in Android Studio. Later, he also gave some suggestions to make the UI attractive and responsive. The fun activity, Kahoot was again carried out, to sum up the session.

## Day 3

**Date:** 17<sup>th</sup> June, 2020

**Time:** 5:00 PM to 6:30 PM IST

**Channel Name:** Silver Oak University IEEE SB

The third session of the event Mobile App Development using Android, was completely hands-on. The session included demonstration of the Frame and Constraint Layout, which was conducted by Maharsh Patel. Following this, Miral Songhela demonstrated the Intents along with its working in Android Studio. Moreover, he demonstrated the use of Buttons, Radio groups, edit text, the concept of stacks in Android followed by its implementation in Android Studio.

## Day 4

**Date:** 18<sup>th</sup> June, 2020

**Time:** 5:00 PM to 6:30 PM IST

**Channel Name:** Silver Oak University IEEE SB

After 3 days into the workshop, all the basic concepts of android studio were covered, henceforth, the speaker decided to take a step forward and conduct another follow-along session where they would be able to create a Simple Calculator. For this, Maharsh Patel illustrated the front-end which included the usage of Card View, Buttons, Text View, onClick methods etc. Later, Miral Songhela explained the backend with some coding concepts of the Calculator application. At the end of the session, the participants were able to create a Simple Calculator application by themselves.

## Day 5

**Date:** 19<sup>th</sup> June, 2020

**Time:** 5:00 PM to 6:30 PM IST

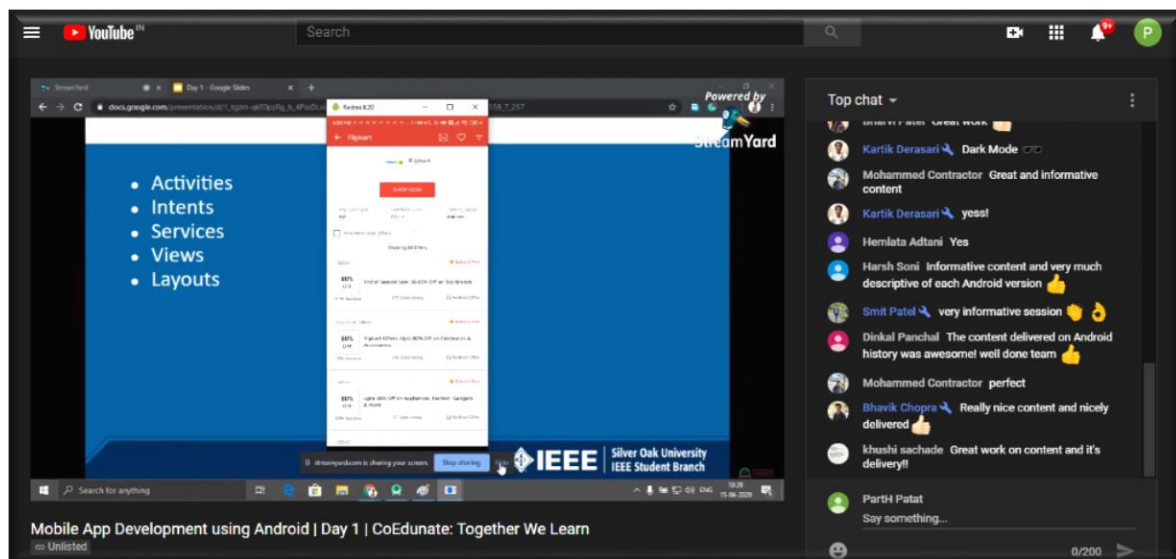
**Channel Name:** Silver Oak University IEEE SB

The final day of the Mobile App Development using Android workshop was highlighted describing interfaces and graphics in android for App Icons. At the very start, an overview of all the covered topics in the past four days was given. Following topics like version control, application sharing, and using GIT was explained and demonstrated in detail by Malvik Chauhan.

## Conclusion

The event was concluded by expressing gratitude towards the speakers, all the enthusiastic participants, faculty coordinators, Principal Dr. Saurin Shah sir, our Faculty Branch Counselor Dr. Savik Khara sir, Silver Oak University management and the entire team of SOU IEEE SB who gave their helping hands for making this event a great success. Mobile App Development Using Android, was organized with a motive of sharing the knowledge among the Student Branch of IEEE Silver Oak University. The event turned out to be a success as 3 members of the Student Branch took an initiative to share their knowledge of Android Studio with their branch mates. Thus, the event was beneficial on a good scale. We are looking forward to continuing this learning program by organizing such more knowledgeable events.

## Some glimpses of the event



YouTube Search

Download this video

Mobile App Development using Android | Day 2 | CoEduate: Together We Learn

Top chat

- Being Dhruv yes
- Bharvi Patel Yes thank you !!
- Dalal Priyal yes
- Silver Oak University IEEE SB [message retracted]
- Kartik Derasan You can also share the GIST file
- Kartik Derasan Yeah, thank!
- Silver Oak University IEEE SB <https://gist.github.com/Themahanspat...>
- Kartik Derasan yes
- Being Dhruv yes
- Parth Patat sure
- Akshat Suthar yes
- Raina Raval yes
- Parth Patat Say something...

YouTube Search

Mobile App Development using Android | Day 3 | CoEduate: Together We Learn

Top chat

- Dalal Priyal yes
- Welcome to live chat! Remember to guard your privacy and abide by our Community Guidelines. [LEARN MORE](#)
- Nishith Prajapati yes
- Dinkal Panchal yes
- narman soni Yes
- Parth Patat yes...now you are
- Priyanshi Patel yes
- Kartik Derasan Just a question, where do you find the Material UI guidelines and can you verify once it's done?
- Silver Oak University IEEE SB <https://material.io/>
- Kartik Derasan Good to know, thanks!
- Parth Patat Say something...

YouTube Search

Mobile App Development using Android | Day 4 | CoEduate: Together We Learn

Top chat

- Priyanshi Patel Yes
- Lokesh Sharma yes
- Priyanshi Patel Yes
- Lokesh Sharma yes
- Rutvi Patel yes
- Being Dhruv YES
- Akshay Patel constraint view
- Akshay Patel Constraint + Linear
- Dalal Priyal yes
- Welcome to live chat! Remember to guard your privacy and abide by our Community Guidelines. [LEARN MORE](#)
- Parth Patat Say something...