



# ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution affiliated to VTU, Belagavi)

Shobhavana Campus, Mijar, Moodbidri- 574 225, Mangaluru, D.K., Karnataka State.

Phone: 08258-262724 (O), 262725(P), Telefax: 08258-262726

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

(Accredited by NAAC with A+ Grade, Accredited by NBA New Delhi (ECE & CSE))

Date: 15/July/2024

From,

VENKATESH

Apple iOS Training Coordinator

Department of CSE

AIET, Moodbidri

To

The PRINCIPAL

AIET, Moodbidri

Through

The HOD,

Department of CSE

AIET, Moodbidri

Respected Sir,

## Sub: Permission to conduct One Week SDP

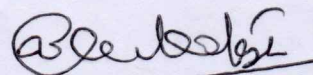
Department of CSE has decided to conduct 10 Days training on "Fundamentals of Swift and iOS Programming" for BCA students of Alva's Degree College, Moodbidri during 3<sup>rd</sup> & 4<sup>th</sup> week of August 2024 in Apple iOS LAB, AIET, Moodbidri. I request you to grant the permission to conduct this training for ALVAS BCA students.

Also, I also request you to permit the Account Section to receive the registration fees of Rs. 500/- from each student of BCA.

I attached the students list for this training along with this request letter.

Thanking You

Yours Sincerely,

  
(VENKATESH)

(Apple iOS Coordinator)

*Forwarded to Principal  
15/7/24*

*Scanned  
16/7/24*





# ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

Shobhavana Campus Mijar, Moodbidri, D.K. Karnataka 574225

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## DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Ten Days (60 Hrs) Training on **"Fundamentals of iOS Programming"** for BCA Students Alvas Degree College Vidyagiri  
**BATCH 1 Students (From 13<sup>th</sup> August 2024 to 24<sup>th</sup> August 2024) -- Registration Sheet**

| No | Name                      | Class (Section) | Phone Number | E-Mail Address                 | Signature       |
|----|---------------------------|-----------------|--------------|--------------------------------|-----------------|
|    | BHARGAVI, B CA23314       | II BCA (A)      | 8122515204   | bhargavikalkur892@gmail.com    | Bhargavi B.     |
|    | PRADEEP CA23353           | II BCA (A)      | 8867222325   | pradeepdshettigar7@gmail.com   | Pradeep         |
|    | P ADHITI BHANDARKAR 23347 | II BCA (A)      | 8792732757   | badhiti56@gmail.com            | P.A. Bhandarkar |
|    | ROSHAN CA23377            | II BCA (B)      | 9019937373   | roshanmj95@gmail.com           | Roshan          |
|    | AKASH CA23404             | II BCA (B)      | 9110823479   | akashau06@gmail.com            | Akh             |
|    | AMRUTH KUMAR CA23407      | II BCA (B)      | 8722622761   | amruthdevadiga72@gmail.com     | Amruth          |
|    | SHRAVAN NAYAK CA23388     | II BCA (B)      | 9380994278   | shravann796@gmail.com          | Shravan         |
|    | SHABDHI CA23383           | II BCA (B)      | 7483929925   | shabdhishetty2@gmail.com       | Shabdhi         |
|    | DILIP Manjunath CA23418   | II BCA (B)      | 8248162685   | bvmanjunath948@gmail.com       | Dilip           |
|    | nimmachetta CA23431       | II BCA (B)      | 9606576940   | nimmachetlayeshwanth@gmail.com | Nimmachetta     |
|    | YRESHWANTH KUMAR REDDY    | II BCA (B)      | 9606576940   | nimmachetlayeshwanth@gmail.com | Yesh            |
| 1. | RAJATH KUMAR CA23494      | II BCA (C)      | 9845702734   | rajathkumar2734@gmail.com      | Rajath          |
| 2. | PRAJWAL CA23484           | II BCA (C)      | 7204944650   | rshettyprajwal@gmail.com       | Prajwal         |
| 3. | HRITHIKA CA23419          | II BCA (C)      | 9108168406   | hhithikapoojary@gmail.com      | Hrithika        |
| 4. | P TRUPTHI CA23480         | II BCA (C)      | 6361851315   | trupthidongre@gmail.com        | P. Trupthi      |
| 5. | MONIKA [CA23567]          | II BCA (C)      | 9019654418.  | monikangowda19@gmail.com       | Not attended.   |





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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Ten Days (60 Hrs) Training on **"Fundamentals of iOS Programming"** for BCA Students Alvas Degree College Vidyagiri

**BATCH 1 Students (From 13<sup>th</sup> August 2024 to 24<sup>rd</sup> August 2024) -- Registration Sheet**

| No  | Name                      | Class (Section) | Phone Number | E-Mail Address                 | Signature |
|-----|---------------------------|-----------------|--------------|--------------------------------|-----------|
| 5.  | RAKSHITHA BANGERA CA23496 | II BCA (C)      | 7892964067   | bangerarakshitha99@gmail.com   |           |
| 7.  | ISHA CA23452              | II BCA (C)      | 8123091605   | isha605isha@gmail.com          |           |
| 8.  | KEERTHAN CA23459          | II BCA (C)      | 7483317699   | keerthanvenoor@gmail.com       |           |
| 9.  | RITHISH CA23501           | II BCA (C)      | 8722442064   | rithishshettigar@gmail.com     |           |
| 10. | SEVANTH A G CA23524       | II BCA (D)      | 9964923819   | sevanthrao1406@gmail.com       |           |
| 11. | SANJAY S CA23521          | II BCA (D)      | 8147820134   | sanjaysanjuss7700416@gmail.com |           |
| 12. | PRAJWAL CA23562           | II BCA (D)      | 6360819503   | prajwalpoojary9503@gmail.com   |           |
| 13. | SUJITH S POOJARY CA23543  | II BCA (D)      | 8296552880   | sujithspoojary8296@gmail.com   |           |
| 14. | SANJANA M HAKARI          | II BCA (D)      | 9742682005   | sanjanamhakari@gmail.com       |           |
| 15. | CA23567                   |                 |              |                                |           |

Signature of the Coordinator

Signature of HOD BCA  
Head of the Department  
Dept. of Computer Science  
Alva's College, Vidyagiri  
MOODBIDRI - 574 227

Signature of HOD CSE AIT  
Head of the Department  
Dept. of Computer Science & Engineering  
Alva's Institute of Engineering and Technology  
Mijar, Moodubidre - 574 225, D.K. Karnataka, India



**Ten Days (60 Hrs) Training on “Fundamentals of iOS Programming” for BCA Students Alvas Degree College Vidyagiri  
BATCH 1 Students (From 13<sup>th</sup> August 2024 to 24<sup>rd</sup> August 2024) – Attendance Sheet**





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## DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Ten Days (60 Hrs) Training on **"Fundamentals of iOS Programming"** for BCA Students Alvas Degree College Vidyagiri  
**BATCH 1 Students (From 13<sup>th</sup> August 2024 to 24<sup>th</sup> August 2024) – Attendance Sheet**

| No  | Name                   | 2024 | 2024 | 2024 | 2024 | 2024 | 2024 | 2024 | 2024 | 2024 | 2024 | 2024 | 2024 | 2024 | 2024 | 2024 | 2024 | 2024 | 2024 | 2024 |
|-----|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|     |                        | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    |
|     |                        | 13   | 13   | 14   | 14   | 16   | 16   | 17   | 17   | 19   | 19   | 20   | 20   | 21   | 21   | 22   | 22   | 23   | 23   | 24   |
|     |                        | AM   | PM   | AM   | PM   | AM   | PM   | AM   | PM   | AM   | PM   | AM   | PM   | AM   | PM   | AM   | PM   | AM   | PM   | AM   |
| 1.  | RAKSHITHA BANGERA      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 2.  | ISHA                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 3.  | KEERTHAN               |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 4.  | RITHISH                |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 5.  | SEVANTH A G            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 6.  | SANJAY S               |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 7.  | PRAJWAL <i>Prajwal</i> |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 8.  | SUJITH S POOJARY       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 9.  | SANJANA M HAKARI       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 10. |                        |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

Signature of the Coordinator

Head of the Department  
Dept. of Computer Science  
Alva's Institute of Engineering & Technology  
Moodbidri, D.K. Karnataka 574225  
  
Signature of HOD BCA

Signature of HOD CSE AIT  
Head of the Department  
Dept. of Computer Science & Engineering  
Alva's Institute of Engineering and Technology  
Mijar, Moodbidri - 574 225, D.K. Karnataka, India



[illegible]



*Evaluation Sheet*

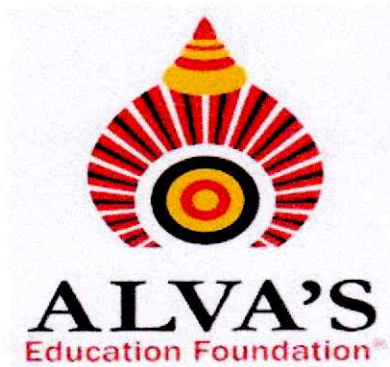
| No  | Name                       | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|-----|----------------------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|
| 7.  | ISHA (15)                  | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  |
| 8.  | KEERTHAN (10)              | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  |
| 9.  | RITHISH (12)               | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  |
| 10. | SEVANTH A G (14)           | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  |
| 11. | SANJAY S                   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  |
| 12. | PRAJWAL (5) (15)           | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  |
| 13. | SUJITH S POOJARY (1) (12)  | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  |
| 14. | SANJANA M HAKARI (16) (15) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  |
| 15. |                            |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |

*[Signature]*  
Signature of the Coordinator

*[Signature]*  
Signature of lab Incharge



**ALVA'S INSTITUTE OF ENGINEERING &  
TECHNOLOGY, MOODBIDRE**



**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

# **Apple iOS LAB**

**A Report of Ten Days Training on  
"iOS APP DEVELOPMENT PROGRAMMING USING SWIFT C"**

**(First Batch: 13<sup>th</sup> AUGUST 2024 – 24<sup>th</sup> AUGUST 2024)**

**For**

**II YEAR BCA STUDENTS OF ALVAS DEGREE COLLEGE MOODBIDRI**

**By: Mr. Venkatesh**

**2024–25**



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- 1. Introduction**
- 2. Syllabus Covered**
- 3. List of Programs**
- 4. Apple Guided Projects**
- 5. Outcome**



## 1. Introduction

Department of CSE organized a Ten Days training Program on “iOS App Development Programming Using Swift C” for the students of second year BCA Students of Alvas College Moodbidri. The training was held from 13<sup>th</sup> August 2024 to 24<sup>th</sup> August 2024. The trainer Mr. Venkatesh, welcomed the HOD and Students during the informal inauguration of the training program.



Dr. Manjunath Kotari inaugurated the program informally. In his inaugural speech, he said the students about the importance of iOS Programming. He also briefed about the android and iOS Applications. He suggested the students to develop an App in iOS and try to upload into iOS App Store.

Dr. Manjunath Kotari mentioned about our student's iOS programming App development experience in placement drive. He



also suggested the students to refer the iOS reports prepared by the AIET students.

Mr. Venkatesh, Senior Associate Professor in the Department of CSE AIET, was the Trainer of this training Program. Total 23 BCA students of second year from Alvas degree college Vidyagiri were registered for this training.



Mr. Venkatesh explained about the importance of iOS and he compared the iOS with android. He started the training with very simple problem like displaying the welcome message in Swift C language. He explained the different types of symbol definitions in the Swift C and its difference. He also explained when the constants and variables are to be used by giving the example of car travelling from one place to another place.

Ms. Yakshitha, the iOS lab instructor, helped the students in timely execution of the day-wise exercises.



## 2. Syllabus Covered

The trainer Mr. Venkatesh started with Simple Program execution using Swift C Language. He covered various basic features of Swift C Programming Language like Strings, Arithmetic Operators, Logical Operators, Control Statements, Looping constructs, Arrays, Structures, Classes, Swift Optional etc... He took around three days for swift C. He explained the various features of swift C with few suitable examples.

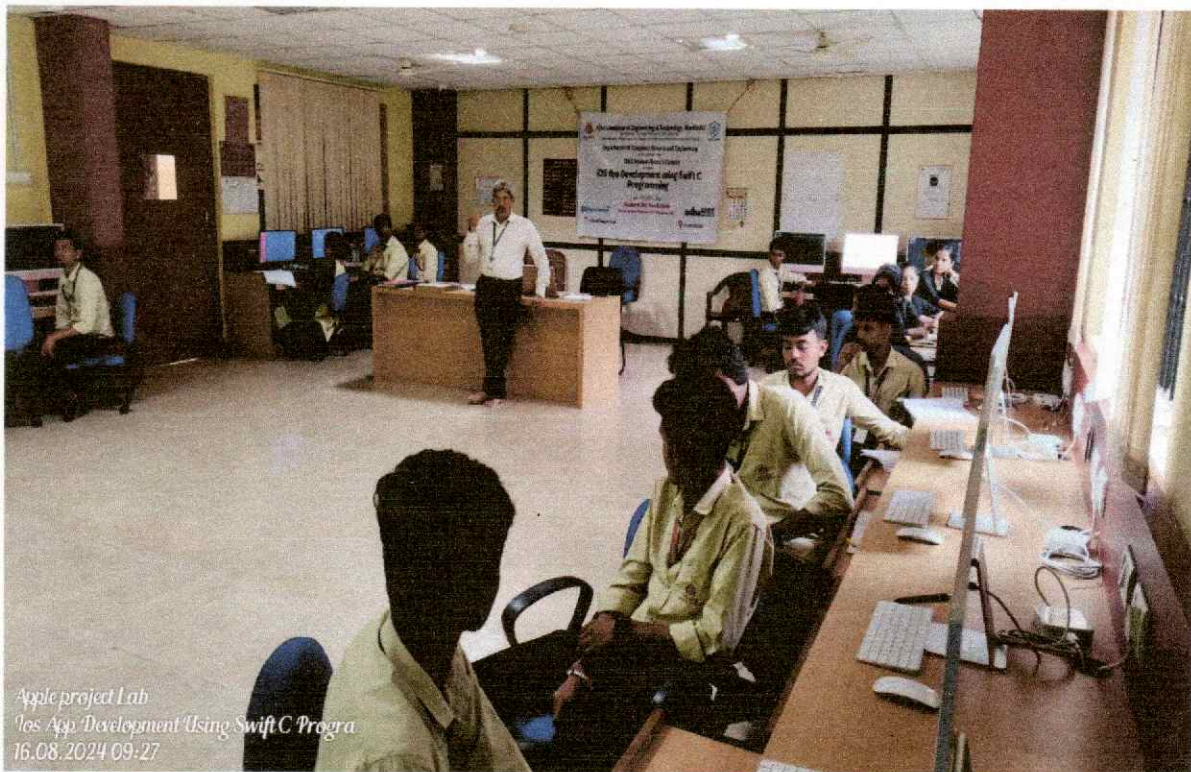


After Swift C, he started the iOS Programming. He begins with introducing the Components of the iOS Programming environment and its usage. He started with designing a simple iOS App called **"LightOnOff"**. He continued his training by guiding the students to implement the similar App called **"ColourToggle"**. He guided the students to implement these apps in many ways, by using UIButtons, by using UISwitches etc...



### 3. List of Programs

The trainer covered the all the fundamentals of iOS App Development during his training period. Few fundamental iOS Apps were developed by the students. He also engaged the students in building three Apple guided projects.



The students are actively participated in the training program. The trainer guiding the students how to clear the different types of bugs. The bugs created by outlets and actions, the bugs created by swift files, etc....

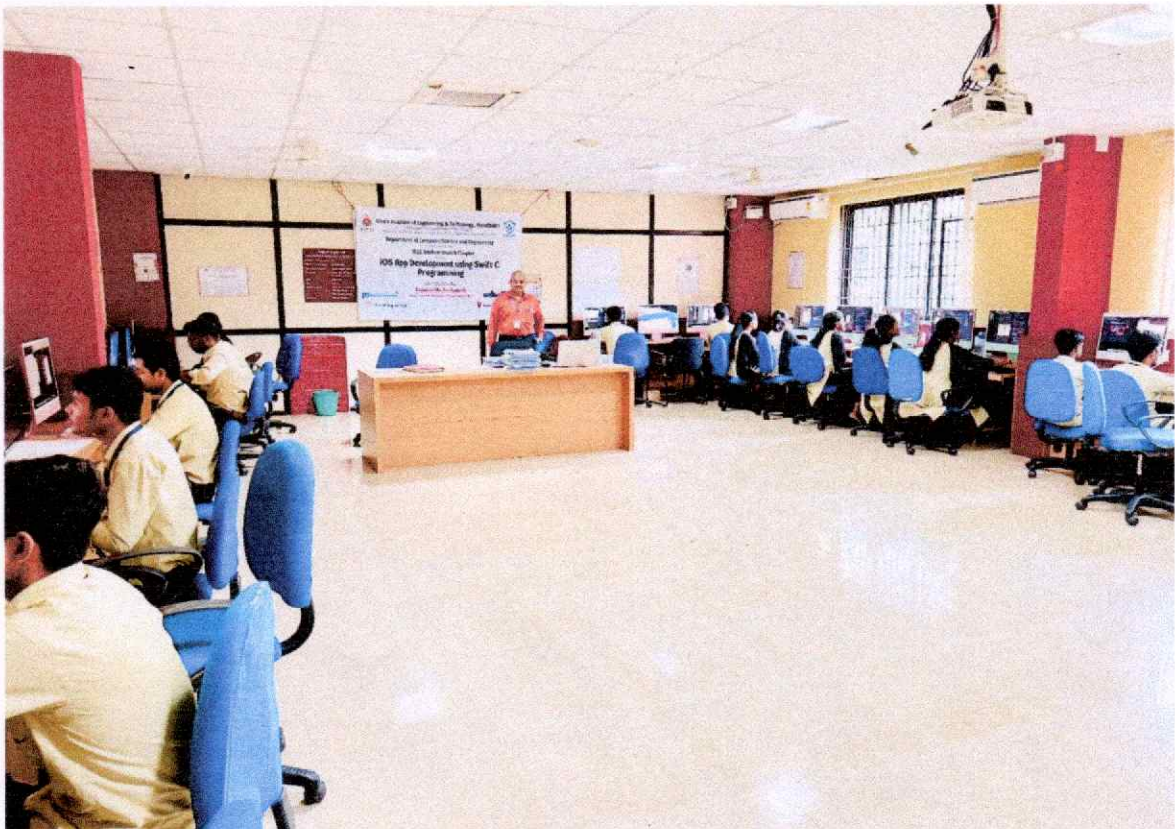
During fifth day of the training, the trainer conducted one-hour online practice test on the topics covered till that day. He also discussed about these questions after the test.



**The list of iOS Apps and guided projects covered during the training sessions are mentioned here below.**

## **1 ColorToggle App**

Design Three Buttons in the view and name them as “BuleGreen”, “RedYellow”, “FourToggle”. First two buttons will toggle the respective colors. For FourToggle Button, the colour should toggled from White → Purple → Green → Yellow → White ...



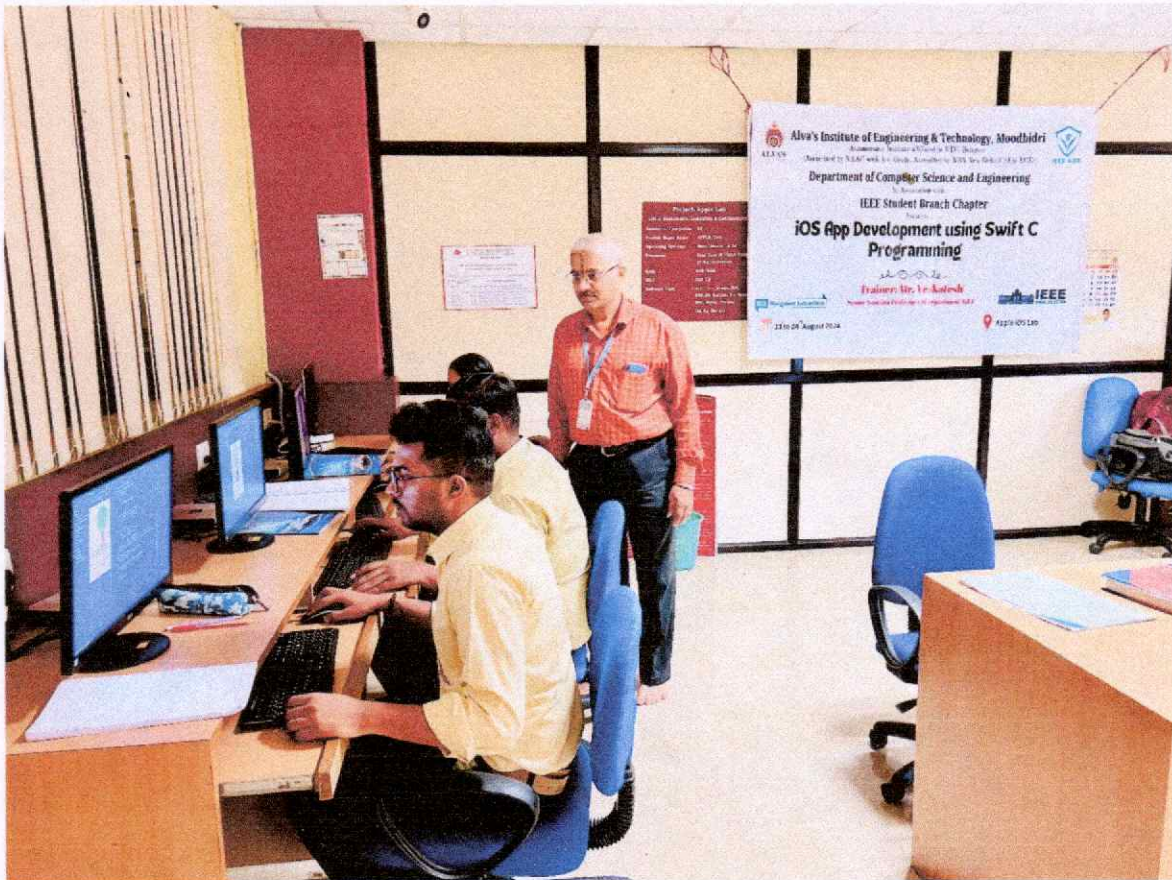
## **2 COPY EXERCISE**

Design Two Labels, One Text Field and a Button on the view. Name the First Label with your First Name. Name the second Label with Last Name. Name the Button “SUBMIT”. By clicking the SUBMIT button, The Full name should be copied into TextField.



### 3 ArithmeticCalculation App

Design Two TextFields with Larger Font Size and Bold. Design Four Buttons with names “ADD”, “SUBTRACT”, “MULTIPLY” and “DIVIDE” respectively. During the Execution, User should enter One integer Number in one textField and another integer Number in another text Field. By Clicking on any one Button, Perform the respective operation on these two numbers and display the result in the Third Text Field.



### 4 NameSplit App

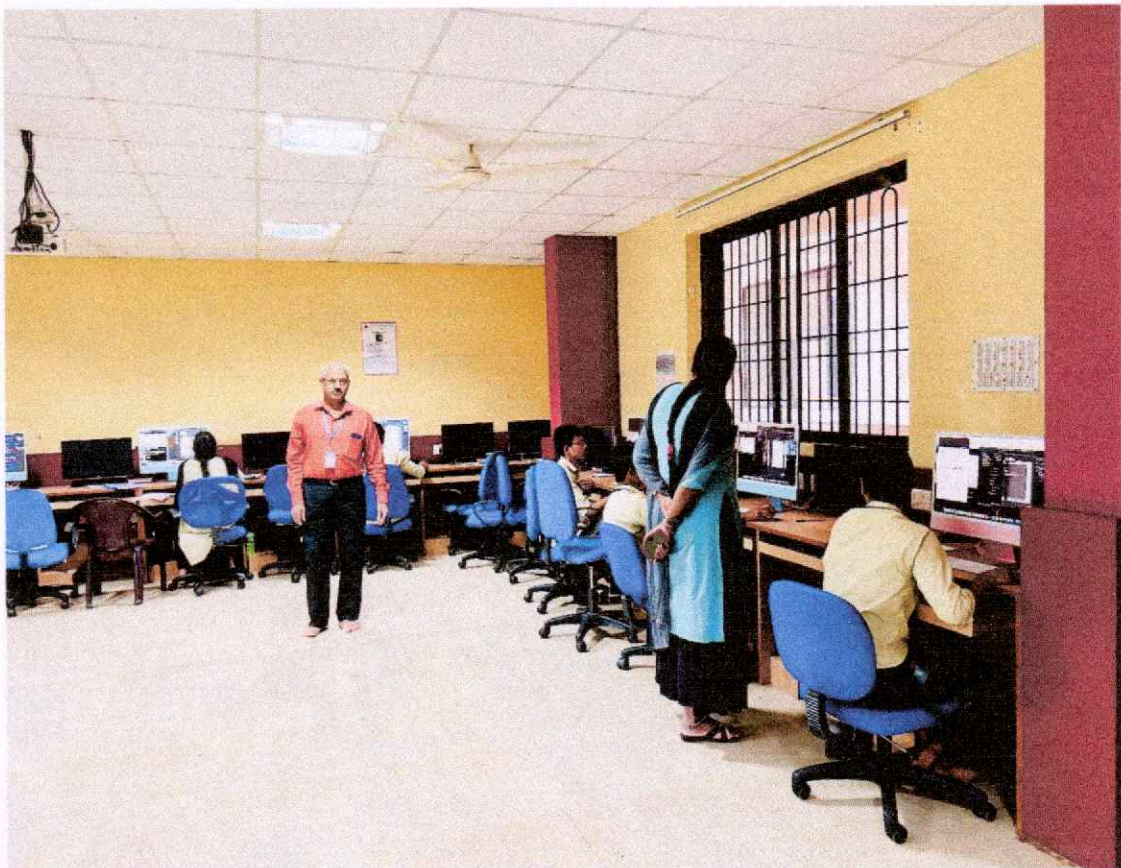
Design a Label Field containing Full Name. (Full Name may have First Name, Middle Name, and Last Name). Design Three Text Fields and One Button. Name the Button as “SPLIT”. Name the textFields as FirstName, MiddleName, and LastName. By clicking the SPLIT



Button, the Full Name from the Label Field must be splitted into First Name, Middle Name and Last Name. Copy these three into three differnet Text Fields.

## 5 **Swaping App**

Design Two TextFields and One Button. Name the Button as XCHG. During the Execution, Enter any values in two textFields. By Clicking the XCHG Button, the values in the TextFields must be swapped.



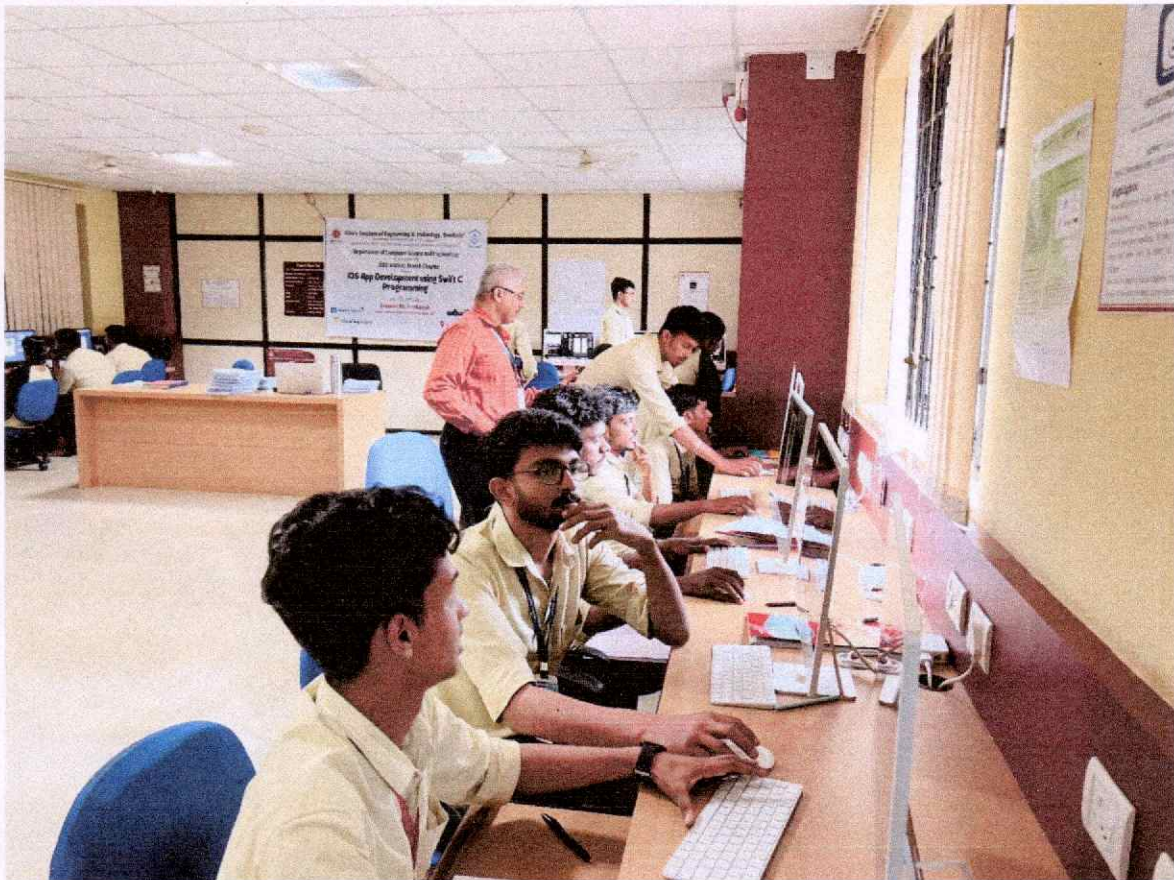
## 6 **Palindrome App**

Design Two TextField and One Button. Name the Button as Palindrome. If the palindrome is clicked, if the content of the first textField is palindrome, then display the message "PALINDROME" in the Second TextField. Else Display the Message "NOT PALINDROME" in the second TextField



## 7 NegativePositiveZero App

Design one text field score. Design one button SUBMIT. By clicking the SUBMIT Button, if the score is negative, then move to negative ViewController else if score is positive, then move to Positive View Controller else move to Zero View Controller



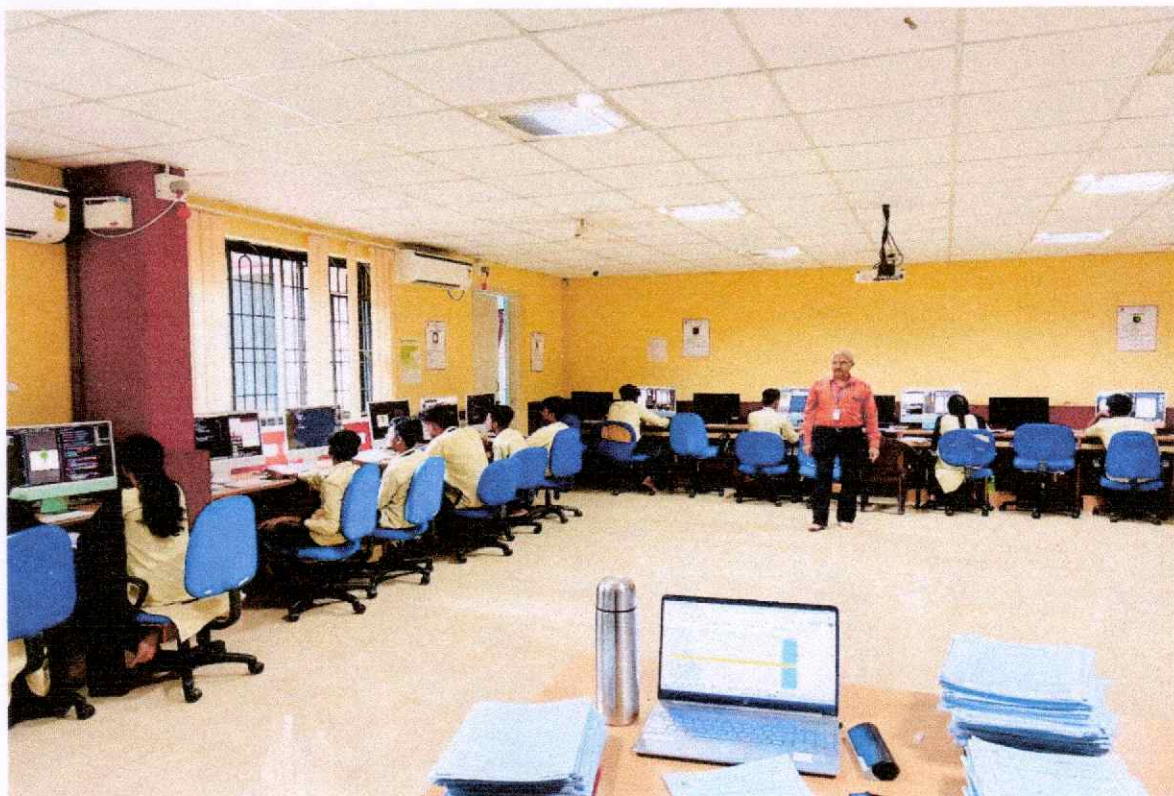
## 8 Multiple Usernames and Default Password app

Design Two text fields Username and Password. Password should be secured. Design one button SUBMIT. By clicking the SUBMIT Button, if username is "aiet" or "cse" or "mijar" or "moodbidri" and default password is "1234", display the message "Welcome to username" (here username inside the message is title of username text field) in the navigationItem Title place of second view controller, otherwise display the message "Username password are incorrect".



## 9 Multiple Usernames and Multiple Password app (separate Password for different username)

Design Two text fields Username and Password. Password should be secured. Design one button SUBMIT. By clicking the SUBMIT Button, if username is "aiet" and password is "aaa" or user name is "cse" and password is "bbb" or username is "mijar" and password is "cccc" or username is "moodbidri" password is "123", display the message "Welcome to username" (here username inside the message is title of username text field) in the navigationItem Title place of second view controller, otherwise display the message "Username password are incorrect".



## 10 Incrementor App

Design one textfield My Score1 and one Button INCREMENT1 in First view controller. One textfield My Score2 and one Button INCREMENT2 in Second view controller. One Text Field My Score3 in Third View Controller.



By clicking the Increment1 button, copy the incremented content of My Score1 to My Score2. By Clicking the Transfer2 Button, transfer the incremented content of My Score2 to My Score3.

## 11 OptionalObjectDispaly App

Design Marks View Controller containig the marks of Four Subject. If anyone mark is greater than 100, it is invalid mark. If all the marks are valid, then display Total Marks in the totalViewController and make disappear the invalid textField. If anyone marks is invalid, then display the message "INVALID MARKS" in the invalid TextField and make disappear the Total textField.

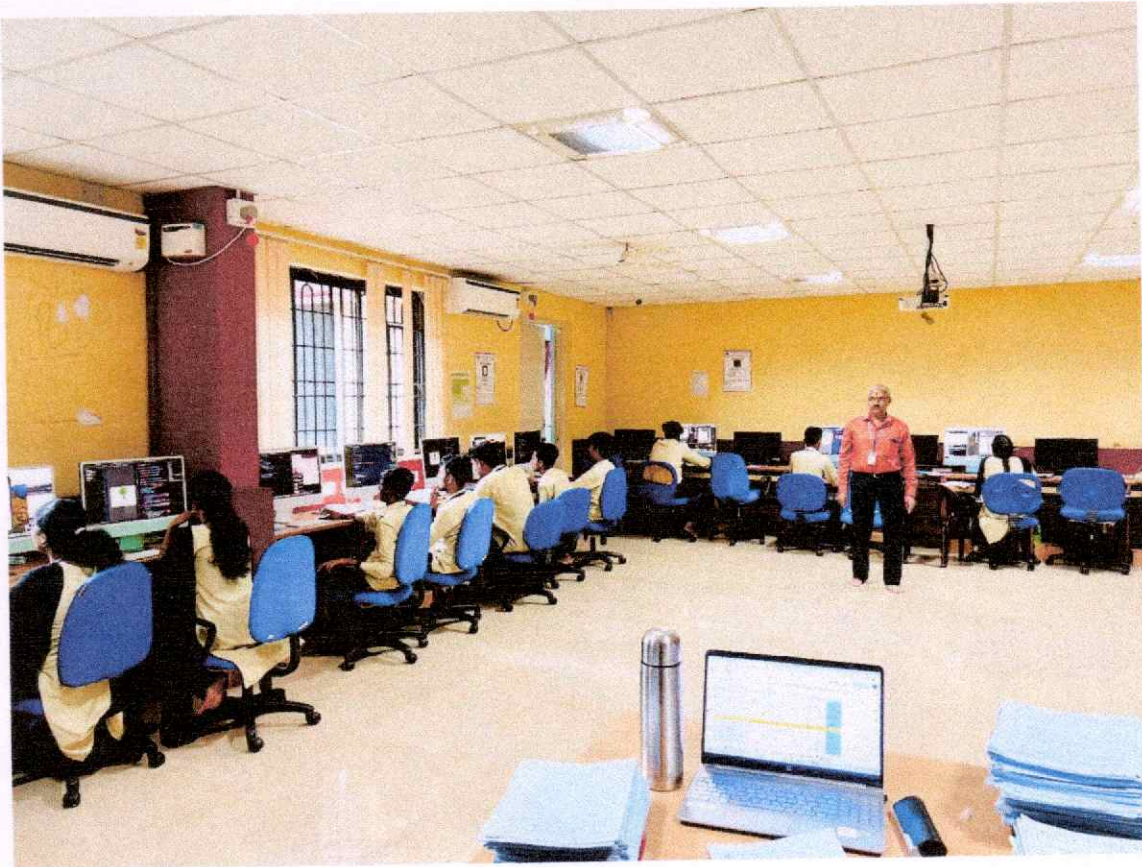


## 12 ImageGuess App

Draw one UIImageView **myImage** in the scene and a Button called **GuessImage**. Draw one TextField called **GuessMyImage**. User should type the image name in the textField **GuessMyImage** and click **GuessImage** Button. By Clicking the **GuessImage** Button,



Display random image in the ImageView **myImage** from available assets. If the image displayed in the **myImage** is same as specified in the **GuessMyImage** textfield, then Display the message "**Congratulations...Your Guess is Correct**" in the second TextField **guessResult**. Otherwise display the message "**Sorry...Your Guess is Wrong**" in the second textfield **guessResult**.



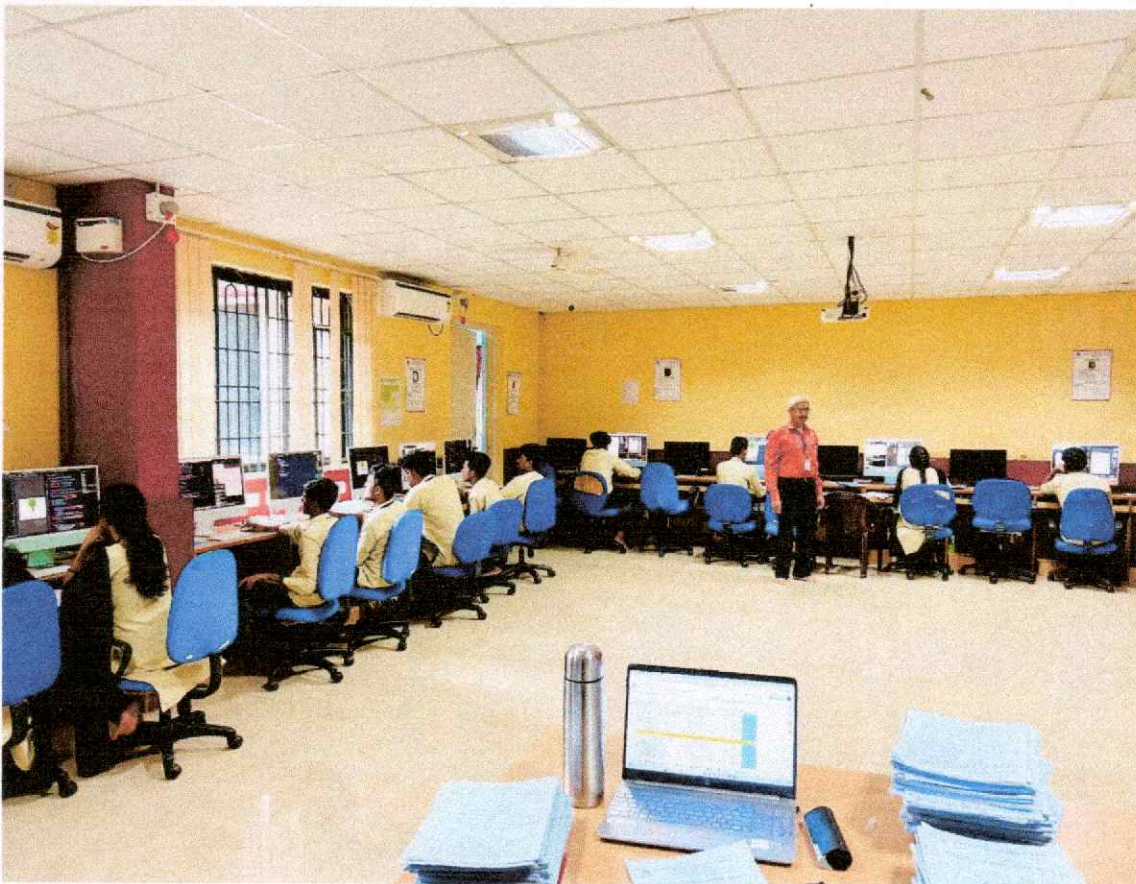
In addition to these programs, the trainer also guided the students to implement the three Apple guided projects: Standard simple calculator, Apple pie game and Personality Quiz.



## 4. Apple Guided Projects

### 1. Standard Simple Calculator App:

The trainer guided the students how to develop the basic calculator prototype containing various components. This project covers the iOS Auto Layout features and Stack view concepts. After designing the calculator prototype using Auto Layout and stack-view features, he guided how to develop the program for it. All the students successfully build their simple calculator in iOS environment.

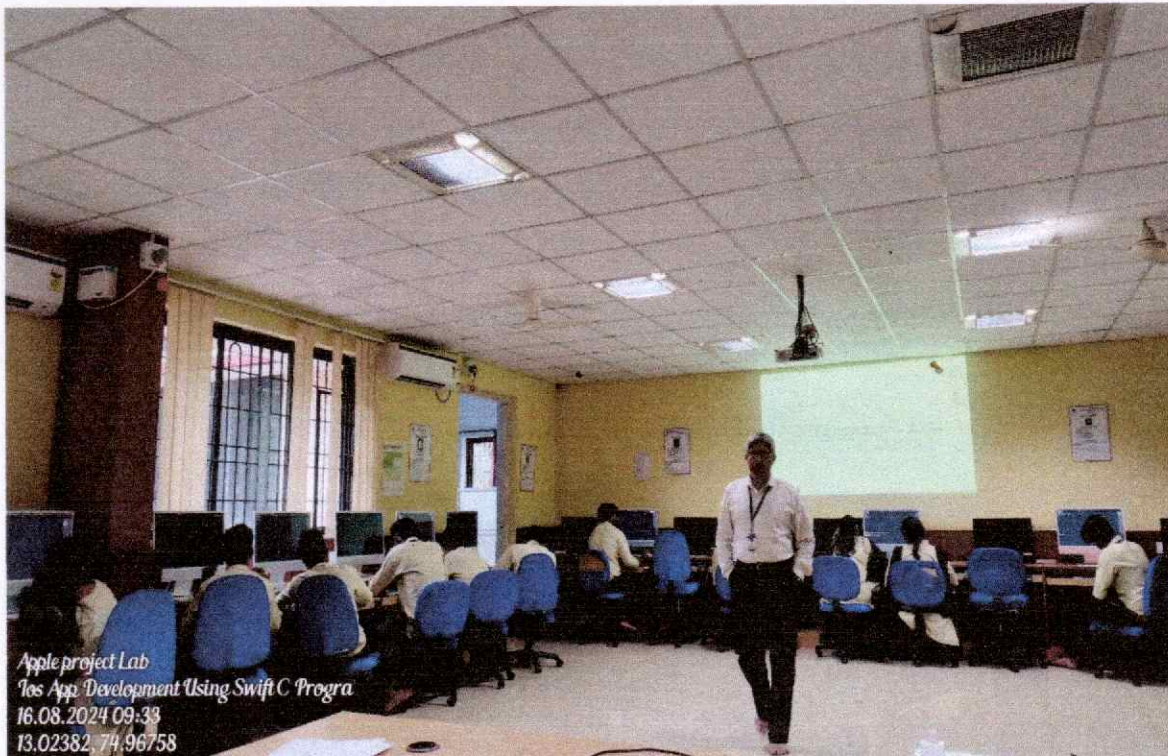


### 2. Apple Pie Game:

This is an image view application and random number-based project. This is a simple word-guessing game. Each player has a limited number of turns to guess the letters in a word. Each



incorrect guess results in an apple falling off the tree. The player wins by guessing the word correctly before all the apples are gone. Whenever a round is won or lost, a new game is immediately started. If there are no more words left to guess, all buttons are disabled, and the app needs to be restarted.



### **3. Personality Quiz:**

Players are presented with a lighthearted topic and answer questions that align them to a particular outcome. Here are some examples of personality quiz topics:

What animal are you?

What country should you visit next?

Which Apple product are you?

There are no correct answers to quiz questions. Answers are purely subjective, and their results don't even have to be logical.

For example, suppose you design a quiz called "What country should you visit next?" You could pose the question "What is your



favorite color?” and decide that the answer “green” aligns to Italy and not to France. Other questions and answers might make more sense. If the player prefers sushi over pasta, you could award points for Japan instead of for Italy.



This guided project will use “Which animal are you?” as the quiz topic. The four possible outcomes are: dog, cat, rabbit, and turtle. But if you prefer to choose your own topic and outcomes, go ahead. As long as you’re following the steps in the project, any topic is fine. You will learn more if you are having a good time.

Finally, the trainer strongly suggested the students to continue the self-study of advanced topics in the iOS Programming and try to develop the real time applications in iOS Environment and try to upload it to iOS App Store.



During the last day of the training, Dr. G Srinivasan is the guest for the informal valedictory function. He distributed the certificates to all participants.



In his valedictory speech, he said that this training is not the final. It is just a beginning of the iOS development. He suggested the students to improve their knowledge in iOS field by involving themselves in the app development.





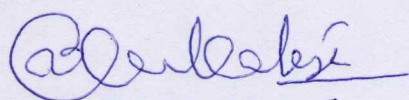
## Students List of the Training Program

|    |                                   |    |                   |
|----|-----------------------------------|----|-------------------|
| 1  | BHARGAVI                          | 13 | HRITHIKA          |
| 2  | PRADEEP                           | 14 | P TRUPTHI         |
| 3  | P ADHITI BHANDARKAR               | 15 | RAKSHITHA BANGERA |
| 4  | ROSHAN                            | 16 | ISHA              |
| 5  | AKASH                             | 17 | KEERTHAN          |
| 6  | AMRUTH KUMAR                      | 18 | RITHISH           |
| 7  | SHRAVAN NAYAK                     | 19 | SEVANTH A G       |
| 8  | SHABDHI                           | 20 | SANJAY S          |
| 9  | DILIP MANJUNATH                   | 21 | PRAJWAL POOJARY   |
| 10 | NIMMACHETLA YESHWANTH KUMAR REDDY | 22 | SUJITH S POOJARY  |
| 11 | RAJATH KUMAR                      | 23 | SANJANA M HAKARI  |
| 12 | PRAJWAL                           |    |                   |

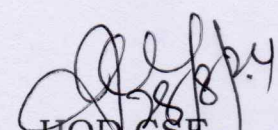
### OUTCOME

Total 23 students were trained during this training session. All 23 students were attended the training program regularly and got benefitted by this training. All the students build the three Apple Guided Projects successfully.

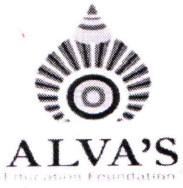
Training certificates are distributed by the guest Dr. G Srinivassan, Professor, Department of CSE, AIET to all the participants on the last day of the training.

  
COORDINATOR

  
PRINCIPAL  
Alva's Institute of Engg. & Technology,  
Mijar, MOODUBIDRI - 574 225, D.K

  
HOD CSE  
Head of the Department  
Dept. of Computer Science & Engineering  
Alva's Institute of Engineering and Technology  
Mijar, Moodubidire - 574 225, D.K. Karnataka, India





# ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

Shobhavana Campus Mijar, Moodbidri, D.K. Karnataka 574225

(Autonomous Institution affiliated to VTU, Belagavi)

(Accredited by NAAC with A+ Grade, and Accredited by NBA New Delhi 2019-2025)

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Date: 19/04/2024

From

VENKATESH

Senior Associate Professor

Department of Computer Science and Engineering

Alvas Institute of Engineering and Technology

Mijar, Moodbidri

To

The PRINCIPAL

AIET

Mijar, Moodbidri

Through

The HOD CSE

AIET Moodbidri

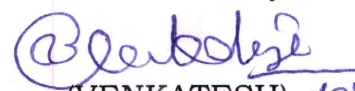
Sub: Weekdays training program on **"Fundamentals of iOS Programming"**

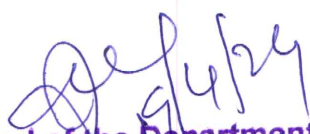
Respected Sir,

Department of Computer Science and Engineering AIET decided to conduct Weekdays Training Program on **"Fundamentals of iOS Programming"** to IV SEM CSE Students from 29<sup>th</sup> April 2024 till the end of the semester. In this training program, IV SEM CSE Class will be divided into six batches. Each batch will get three hours of the training in each week. I request you to permit for conducting this training program in AIET Apple iOS Lab. I hope you will consider this request letter and do the needful.

Thanking You

Yours faithfully

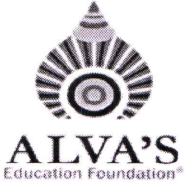
  
(VENKATESH) 19/04/2024

  
Head of the Department

Dept. of Computer Science & Engineering  
Alva's Institute of Engineering and Technology  
Mijar, Moodbidri - 574 225, D.K. Karnataka, India

  
PRINCIPAL  
Alva's Institute of Engg. & Technology  
Mijar, MOODBIDRI - 574 225, D.K.





## ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

Shobhavana Campus Mijar, Moodbidri , D.K. Karnataka 574225

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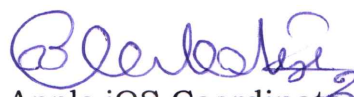
(Accredited by NAAC with A+ Grade, and Accredited by NBA New Delhi 2019-2025)

### DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

## CIRCULAR

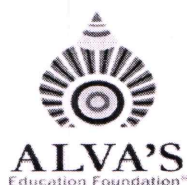
27-04-2024

Department of Computer Science and Engineering, AIET is planned to organize a weekdays training program on **“Fundamentals of iOS Programming”** for IV SEM CSE Students. In this regards, IV SEM CSE Class is divided into six batches. Each batch will get a three hours training session in every week. The students batchwise list and timing of training for each batch is displayed in the notice board. All the students are hereby informed to the training as per the allotted slot in every week.

  
Apple iOS Coordinator

  
HOD CSE  
**Head of the Department**  
Dept. of Computer Science & Engineering  
Alva's Institute of Engineering and Technology  
Mijar, Moodubidri - 574 225, D.K. Karnataka, India





# ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

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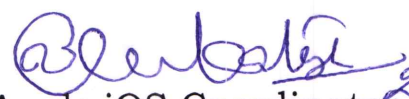
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

## Weekdays Training Program on "Fundamentals of iOS Programming"

### For IV SEM CSE Students

### Timing Slot for each Batch

| DAY       | MORNING SESSION<br>(09.50 AM To 12.50 AM) | AFTERNOON SESSION<br>(01.40 PM To 04.40 PM) |
|-----------|-------------------------------------------|---------------------------------------------|
| MONDAY    | IV SEM CSE C1 BATCH                       |                                             |
| TUESDAY   |                                           | IV SEM CSE B1 BATCH                         |
| WEDNESDAY | IV SEM CSE C2 BATCH                       |                                             |
| THURSDAY  | IV CSE A1 BATCH                           | IV SEM CSE B2 BATCH                         |
| FRIDAY    | IV SEM CSE A2 BATCH                       |                                             |

  
Apple iOS Coordinator 27/04/2024

  
HOD CSE

Head of the Department  
Dept. of Computer Science & Engineering  
Alva's Institute of Engineering and Technology  
Mijar, Moodubidre - 574 225, D.K. Karnataka, India

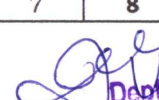


# Department of Computer Science and Engineering

## Week days Apple IOS Training

| USN        | NAME                          | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   |
|------------|-------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|            |                               | 2024 | 2024 | 2024 | 2024 | 2024 | 2024 | 2024 | 2024 | 2024 | 2024 | 2024 | 2024 | 2024 |
|            |                               | 5    | 5    | 5    | 5    | 5    | 6    | 6    | 6    | 6    | 7    | 7    | 7    | 7    |
|            |                               | 2    | 9    | 16   | 23   | 30   | 6    | 13   | 20   | 27   | 4    | 11   | 18   | 25   |
| 4AL22CS001 | ABHISHEK B                    | 1    | 2    | A    | 3    | 4    | 5    | A    | 6    | 7    | 8    | 9    | 10   | A    |
| 4AL22CS002 | ABHISHEK GOWDA G R            | 1    | A    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | A    | A    | A    |
| 4AL22CS003 | ABHISHEK R ALLAPUR            | A*   | A    | A    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | A    | A    | A    |
| 4AL22CS004 | ADHYA H SHETTY                |      | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   |
| 4AL22CS005 | ADVITH V SUVARNA              | 1    | 2    | A    | 3    | A*   | A*   | 4    | 5    | 6    | 7    | 8    | 9    | 10   |
| 4AL22CS006 | AKHIFA SHEIK                  | A    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   |
| 4AL22CS007 | AKHILESH H R                  | A    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | A    |
| 4AL22CS008 | AKSHAY REVANASIDDAPPA BANGARI | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | A    |
| 4AL22CS009 | ALAN C RAJU                   | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   |
| 4AL22CS010 | AMITH GOWDA H M               | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | A    |
| 4AL22CS011 | AMRUTHA M                     | A    | 1    | A    | 2    | 3    | 4    | A    | 5    | 6    | 7    | 8    | 9    | 10   |
| 4AL22CS012 | ANSIL KUMAR                   | A    | 1    | 2    | A*   | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   |
| 4AL22CS013 | ANUSH                         | 1    | 2    | A    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   |
| 4AL22CS014 | ANUSHA K N                    | A    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   |
| 4AL22CS015 | APOORVA                       | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   |
| 4AL22CS016 | APOORVA                       | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   |
| 4AL22CS017 | ARUN                          | A    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   |
| 4AL22CS018 | ARVIND KUMAR OJHA             | A    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | A    | 9    | 10   | 11   |
| 4AL22CS019 | ASHRITHA                      | A    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   |
| 4AL22CS020 | AYESHATUL HAFEEZA             | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   |
| 4AL22CS021 | B B NAIK                      | 1    | 2    | A    | A    | A    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   |
| 4AL22CS022 | BASAVARAJ                     | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | A    |
| 4AL22CS023 | BHARATH H D                   | A    | 1    | A    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   |
| 4AL22CS024 | BHARATH M                     | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   |
| 4AL22CS025 | BHOOMIKA R                    | 1    | 2    | 3    | 4    | 5    | A    | 6    | A    | 7    | 8    | 9    | 10   | 11   |
| 4AL22CS026 | BRIJESH S K                   | 1    | 2    | A    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   |
| 4AL22CS027 | CHARAN KUMAR V                | 1    | 2    | 3    | 4    | 5    | A    | A    | 6    | A    | A    | A    | A    | A    |
| 4AL22CS028 | CHARISHMA G                   | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | A    | 10   | 12   | 13   |
| 4AL22CS029 | CETHAN D B                    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   |
| 4AL22CS030 | CETHAN KUMAR                  | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   |
| 4AL22CS031 | CETHAN L R                    | A*   | 1    | 2    | A    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   |
| 4AL22CS032 | CHINMAY GOWDA H V             | 1    | 2    | 3    | 4    | 5    | 6    | 7    | A    | 8    | 9    | A    | A    | A    |
| 4AL22CS033 | CHIRASHRI                     | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   |

*Blasquez*


**Head of the Department**  
 Dept. of Computer Science & Engineering  
 Alva's Institute of Engineering and Technology  
 Mijar, Moodubidire - 574 225, D.K, Karnataka



Department of Computer Science and Engineering  
Week days Apple IOS Training

| USN        | NAME                       | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   |
|------------|----------------------------|------|------|------|------|------|------|------|------|------|------|------|
|            |                            | 2024 | 2024 | 2024 | 2024 | 2024 | 2024 | 2024 | 2024 | 2024 | 2024 | 2024 |
|            |                            | 5    | 5    | 5    | 5    | 6    | 6    | 6    | 6    | 7    | 7    | 7    |
|            |                            | 10   | 17   | 24   | 31   | 7    | 14   | 21   | 28   | 5    | 12   | 19   |
| 4AL22CS034 | DARSHAN B                  | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   |
| 4AL22CS035 | DEEPAK                     | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   |
| 4AL22CS036 | DEEPIKA N                  | A    | A    | 1    | 2    | A    | A    | 3    | 4    | 5    | 6    | 7    |
| 4AL22CS037 | DEVIKA S A                 | 1    | A    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   |
| 4AL22CS038 | DHANARAJ SHRISHAIL BIRADAR | A    | A*   | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    |
| 4AL22CS039 | DISHA M                    | 1    | 2    | 3    | 4    | A    | A    | 5    | 6    | 7    | 8    | 9    |
| 4AL22CS040 | DIVYA                      | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   |
| 4AL22CS041 | DIYA RAI                   | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   |
| 4AL22CS042 | ELLURI CHAITANYA SRINIVAS  | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   |
| 4AL22CS043 | FAIZA                      | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   |
| 4AL22CS044 | GAGAN                      | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   |
| 4AL22CS045 | GAJENDRA A                 | 1    | 2    | A    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   |
| 4AL22CS046 | GAYATRI M BALIGAR          | 1    | A    | 2    | 3    | 4    | A    | 5    | 6    | 7    | 8    | 9    |
| 4AL22CS047 | GLANIL TAURO               | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   |
| 4AL22CS048 | GOURI KARABASAPPA BANAKAR  | A    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   |
| 4AL22CS049 | GOWDA MIILEE MADANKUMAR    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   |
| 4AL22CS050 | GRISHMA PRASHANT BHANDARE  | 1    | A    | 2    | 3    | A    | A    | 4    | 5    | 6    | 7    | 8    |
| 4AL22CS051 | H I AKSHAY                 | A    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   |
| 4AL22CS052 | H L RAKSHA                 | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   |
| 4AL22CS053 | H MANJULA                  | 1    | A    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   |
| 4AL22CS055 | HARSHA C R                 | 1    | A    | 2    | 3    | 4    | 5    | 6    | 7    | A    | A    | A    |
| 4AL22CS056 | HARSHITH L S               | 1    | A    | 2    | 3    | 4    | 5    | 6    | 7    | A    | A    | A    |
| 4AL22CS057 | HARSHITHA D BANGERA        | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   |
| 4AL22CS058 | HARSHITHA H N              | 1    | A    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   |
| 4AL22CS059 | HARSHITHA M                | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   |
| 4AL22CS060 | HARSHITHA M                | 1    | A    | 2    | A*   | A    | A    | 3    | 4    | 5    | 6    | 7    |
| 4AL22CS061 | HEETHA SHREE S             | 1    | 2    | 3    | A    | 4    | 5    | 6    | 7    | 8    | 9    | 10   |
| 4AL22CS063 | INCHARA ANGADI             | A    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   |
| 4AL22CS064 | INDRAJITH S                | 1    | A    | A    | 2    | 3    | 4    | 5    | 6    | 7    | A    | A    |
| 4AL23CS400 | ANNAPURNESHWARI            | A    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   |
| 4AL23CS401 | ANVETHA H M                | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   |
| 4AL23CS402 | JYOTHI BHOKARE             | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   |
| 4AL23CS403 | LAKSHMIPRASAD D YADAV      | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   |
| 4AL23CS404 | RACHANA M                  | 1    | 2    | 3    | 4    | 5    | 6    | 7    | A*   | A*   | A*   | 8    |

*Beentale*

*[Signature]*  
Head of the Department  
Dept. of Computer Science & Engineering  
Alva's Institute of Engineering and Technology  
Mijar, Moodubidre - 574 225, D.K. Karnataka, India



# Department of Computer Science and Engineering

## Week days Apple Ios Training

|            |                              | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   |
|------------|------------------------------|------|------|------|------|------|------|------|------|------|------|------|
|            |                              | 2024 | 2024 | 2024 | 2024 | 2024 | 2024 | 2024 | 2024 | 2024 | 2024 | 2024 |
| USN        | NAME                         | 4    | 5    | 5    | 5    | 5    | 6    | 6    | 7    | 7    | 7    | 7    |
|            |                              | 30   | 7    | 14   | 21   | 28   | 18   | 25   | 2    | 2    | 16   | 23   |
| 4AL22CS065 | JAYALAKSHMI C                | 1    | A    | A*   | A*   | 2    | 3    | 4    | A    | A    | 5    | 6    |
| 4AL22CS066 | JEEVAN K                     | 1    | 2    | 3    | A    | 3    | 4    | 5    | 6    | 6    | A    | A    |
| 4AL22CS067 | K JEEVAN KUMAR               | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 8    | 9    | 10   |
| 4AL22CS068 | K VEERESH                    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 8    | 9    | 10   |
| 4AL22CS069 | KANISHKA SHETTY              | 1    | 2    | 3    | A*   | 4    | 5    | 6    | 7    | 7    | 8    | 9    |
| 4AL22CS070 | KARAN                        | 1    | A    | 2    | 3    | A    | 4    | A    | 5    | 5    | 6    | 7    |
| 4AL22CS071 | KARTHIK N                    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 8    | 9    | 10   |
| 4AL22CS072 | KARTHIKEYA J S               | 1    | 2    | 3    | A*   | 4    | 5    | 6    | 7    | 7    | 8    | 9    |
| 4AL22CS073 | KAVYA S                      | 1    | 2    | 3    | 4    | A    | A    | 5    | 6    | 6    | 7    | 9    |
| 4AL22CS074 | KAVYASHREE                   | 1    | 2    | 3    | A*   | 4    | 5    | 6    | 7    | 7    | 8    | 9    |
| 4AL22CS075 | KEERTHANA M                  | 1    | 2    | 3    | 4    | 5    | A    | 6    | 7    | A    | A    | 8    |
| 4AL22CS076 | KEERTHANA R S                | 1    | 2    | 3    | 4    | 5    | A    | 6    | 7    | 7    | 8    | 9    |
| 4AL22CS077 | KEERTHIRAJ S B               | 1    | 2    | 3    | A*   | 4    | 5    | 6    | 7    | 7    | 8    | 9    |
| 4AL22CS078 | KIRAN KUMAR                  | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 8    | 9    | 10   |
| 4AL22CS079 | KUSUMA C D                   | 1    | 2    | 3    | 4    | 5    | A    | 6    | 7    | 7    | A    | 8    |
| 4AL22CS080 | LAKSHMI SHIVABASAPPA BANAKAR | 1    | A    | 2    | 3    | 4    | 5    | 6    | 7    | 7    | 8    | 9    |
| 4AL22CS081 | LOHITH B R                   | 1    | 2    | A    | A    | 3    | 4    | 5    | 6    | 6    | A    | 7    |
| 4AL22CS082 | MAHIMA NAYAK                 | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 8    | 9    | 10   |
| 4AL22CS083 | MALLIKA K                    | 1    | 2    | 3    | 4    | 5    | 6    | A    | 7    | 8    | 9    | 10   |
| 4AL22CS084 | MANOHARI B R                 | 1    | A    | 2    | 3    | A    | 4    | 5    | 6    | 6    | 7    | 8    |
| 4AL22CS085 | MEGHA BASAVARAJ TAMBAKAD     | A    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 7    | A    | 8    |
| 4AL22CS086 | MEGHANA N K                  | 1    | 2    | 3    | 4    | A    | 5    | A*   | 6    | 6    | A*   | 7    |
| 4AL22CS087 | MEHEK H N                    | 1    | 2    | 3    | 4    | 5    | A    | 6    | 7    | 7    | A    | 8    |
| 4AL22CS088 | MERLYN LUVIS ALMEIDA         | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 8    | 9    | 10   |
| 4AL22CS089 | MOHAMMED AHAZAR              | 1    | 2    | 3    | 4    | 5    | A    | 6    | 7    | 7    | 8    | A    |
| 4AL22CS090 | MOHIDIN AHMED KABEER         | A    | A    | 1    | 2    | 3    | A    | A    | 4    | 4    | 5    | 6    |
| 4AL22CS091 | NAUSHA TENDULKAR             | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 8    | 9    | 10   |
| 4AL22CS092 | NEHA N RAO                   | 1    | 2    | 3    | 4    | 5    | A    | 6    | 7    | 7    | 8    | 9    |
| 4AL22CS093 | NIKSHITHA P RAI              | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 8    | 9    | 10   |
| 4AL22CS094 | NISARGA S                    | 1    | 2    | 3    | A    | 4    | 5    | 6    | 7    | 7    | 8    | 9    |
| 4AL22CS095 | NISHITHA SUVARNA             | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 8    | 9    | 10   |
| 4AL22CS096 | NISHMITHA S SHETTY           | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 8    | A*   | 9    |
| 4AL22CS097 | PADMARAJ PRAPHULL KURUNDWADE | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 8    | 9    | 10   |
| 4AL22CS098 | PALLAVI                      | 1    | 2    | 3    | 4    | 5    | 6    | A    | 7    | 7    | 8    | 9    |
| 4AL22CS099 | PAVAN KUMAR H R              | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 8    | 9    | 10   |

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|            |                            | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   |
|------------|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
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|            |                            | 5    | 5    | 5    | 5    | 5    | 6    | 6    | 6    | 6    | 7    | 7    | 7    |
|            |                            | 2    | 9    | 16   | 23   | 30   | 6    | 13   | 20   | 27   | 4    | 11   | 18   |
| 4AL22CS100 | PAVITRA ISHWARAPPA TALAWAR | A    | 1    | A    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   |
| 4AL22CS101 | POOJA K R                  | A    | 1    | A    | 2    | 3    | A    | 4    | 5    | 6    | 7    | 8    | 9    |
| 4AL22CS102 | PRAJWAL                    | 1    | 2    | A    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   |
| 4AL22CS103 | PRAMOD K S                 | A    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | A    | 8    | A    | A    |
| 4AL22CS104 | PRANATHI BHAT              | 1    | A    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   |
| 4AL22CS105 | PRANAV TIRAKANAGOUDAR      | A    | A    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | A    |
| 4AL22CS106 | PRATHAMESH SHETTY          | A    | 1    | 2    | A    | 3    | 4    | 5    | 6    | 7    | 8    | A    | 9    |
| 4AL22CS107 | PRATHI U SHETTY            | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   |
| 4AL22CS108 | PREETHAM DEVADIGA          | A    | 1    | A    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   |
| 4AL22CS109 | PREETY KAKCHINGTABAM       | 1    | 2    | 3    | 4    | A    | 5    | 6    | 7    | 8    | 9    | 10   | 11   |
| 4AL22CS110 | PRIYANKA                   | A    | A    | A    | 1    | 2    | A    | 3    | 4    | 5    | A*   | A*   | 6    |
| 4AL22CS111 | PUTTARAJU D P              | 1    | 2    | 3    | 4    | 5    | 6    | A    | A    | 7    | 8    | 9    | 6    |
| 4AL22CS112 | RAGHAVENDRA P KARJAGI      | A    | A    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   |
| 4AL22CS113 | RAHUL S KOTI               | A    | 1    | A    | 2    | A    | 3    | 4    | 5    | 6    | 7    | 8    | 9    |
| 4AL22CS114 | RAJESHWARI                 | A    | A    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   |
| 4AL22CS115 | RAKSHITH V RAO             | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | A    | 11   |
| 4AL22CS116 | RAKSHITHA                  | A    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   |
| 4AL22CS117 | RASHMITHA M S              | 1    | 2    | A    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | A    | 10   |
| 4AL22CS118 | RAVITEJ C NEELI            | 1    | 2    | A    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | A    | 10   |
| 4AL22CS119 | RITHIKA P SHETTY           | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   |
| 4AL22CS120 | ROHINI R BANAGAR           | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   |
| 4AL22CS121 | ROSHAN S                   | 1    | 2    | A    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   |
| 4AL22CS122 | SAHANA G                   | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   |
| 4AL22CS123 | SAHANA U                   | A    | 1    | A    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   |
| 4AL22CS124 | SAKSHI                     | A    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   |
| 4AL22CS125 | SAKSHI B K                 | 1    | 2    | 3    | A    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   |
| 4AL22CS126 | SAKSHI SHETTY              | A    | 1    | A    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   |
| 4AL22CS127 | SAMBRAM                    | A    | 1    | 2    | A    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   |
| 4AL23CS405 | RAKESH RAJESH PATTAR       | A    | A    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   |
| 4AL23CS406 | SACHIN IRANNA MUNDAS       | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | A    |
| 4AL23CS407 | SANIYA VATURI              | 1    | 2    | 3    | 4    | 5    | A    | 6    | 7    | 8    | 9    | 10   | 11   |
| 4AL23CS408 | SHRAVANA GOWRI             | 1    | 2    | 3    | 4    | 5    | A    | 6    | A    | 7    | A*   | A*   | 8    |

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|            |                              | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   |
|------------|------------------------------|------|------|------|------|------|------|------|------|------|------|------|
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|            |                              | 4    | 5    | 5    | 5    | 5    | 6    | 6    | 6    | 7    | 7    | 7    |
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| 4AL22CS128 | SAMEEKSHA SHETTY             | 1    | 2    | 3    | A    | 4    | A    | 5    | 6    | 7    | 8    | 9    |
| 4AL22CS129 | SANJANA MADI                 | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   |
| 4AL22CS130 | SANJAY N                     | A    | A    | A    | A    | 1    | A    | 2    | 3    | 4    | 5    | 6    |
| 4AL22CS131 | SHARANYA                     | 1    | 2    | 3    | A    | 4    | 5    | 6    | 7    | 8    | 9    | 10   |
| 4AL22CS132 | SHARANYA R                   | 1    | A    | 2    | A    | 3    | 4    | 5    | 6    | 7    | 8    | 9    |
| 4AL22CS133 | SHARATH                      | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   |
| 4AL22CS134 | SHARATH KUMAR B              | 1    | A    | A    | 2    | A    | A    | A    | A    | A    | A    | A    |
| 4AL22CS135 | SHASHANK BHANDARY            | 1    | 2    | 3    | A    | 4    | A    | 5    | 6    | 7    | 8    | 9    |
| 4AL22CS136 | SHASHANK D                   | A    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   |
| 4AL22CS137 | SHASHANK D P                 | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   |
| 4AL22CS138 | SHASHANK S SHEELAVANTAR      | 1    | 2    | 3    | A    | 4    | 5    | 6    | 7    | 8    | 9    | A    |
| 4AL22CS139 | SHASHWATI B U                | 1    | 2    | 3    | A    | 4    | A    | 5    | 6    | 7    | 8    | A    |
| 4AL22CS140 | SHERIN                       | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   |
| 4AL22CS141 | SHETTY KRISHMA KRISHNA       | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   |
| 4AL22CS142 | SHETTY PRAKHYAT PRAKASH      | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   |
| 4AL22CS143 | SHETTY SAMAY DEEPAK          | 1    | 2    | 3    | A    | 4    | 5    | 6    | 7    | 8    | 9    | 10   |
| 4AL22CS144 | SHETTY VINITH VIJAY          | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   |
| 4AL22CS145 | SHIVAKUMAR V                 | 1    | 2    | 3    | A    | 4    | 5    | 6    | 7    | 8    | 9    | 10   |
| 4AL22CS146 | SHIVALEELA KALASAD           | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   |
| 4AL22CS147 | SHIVANI KAMATH               | 1    | 2    | 3    | A    | 4    | 5    | 6    | 7    | 8    | 9    | 10   |
| 4AL22CS148 | SHIVAPRASAD R K              | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | A    | 10   |
| 4AL22CS149 | SHLAGHANA                    | 1    | A    | 2    | A    | 3    | A    | 4    | 5    | 6    | 7    | 8    |
| 4AL22CS150 | SHODHAN KUMAR SHETTY         | 1    | 2    | 3    | A    | 4    | A    | 5    | 6    | 7    | 8    | 9    |
| 4AL22CS151 | SHRADDHITHA P SHETTIGAR      | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | A    | 10   |
| 4AL22CS152 | SHRAVAN                      | 1    | A    | 2    | 3    | 4    | 5    | 6    | 7    | A    | 8    | 9    |
| 4AL22CS153 | SHRAVANKUMAR CHANDRASHEKHARA | A    | 1    | 2    | A    | A    | 3    | 4    | 5    | 6    | 7    | 8    |
| 4AL22CS154 | SHRAVYA                      | 1    | 2    | A    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   |
| 4AL22CS155 | SHRAVYA P SHETTY             | A    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   |
| 4AL22CS156 | SHRAVYA S M                  | 1    | A    | 2    | A    | 3    | 4    | A    | 5    | 6    | 7    | 8    |
| 4AL22CS157 | SHREYA RAJENDRA GAONKAR      | 1    | A    | 2    | A    | 3    | A    | 4    | 5    | 6    | 7    | 8    |
| 4AL22CS158 | SHREYAS PUTHRAN              | 1    | 2    | 3    | A    | 4    | A    | 5    | 6    | 7    | 8    | 9    |
| 4AL22CS159 | SIDDHARTH KANABARGI          | A    | A    | A    | A    | 1    | 2    | 3    | 4    | 5    | A    | 6    |
| 4AL22CS160 | SOWMYA SHETTY                | 1    | 2    | 3    | A    | 4    | 5    | 6    | 7    | 8    | 9    | 10   |
| 4AL22CS161 | SPOORTHY                     | 1    | 2    | 3    | A    | 4    | 5    | 6    | 7    | 8    | A    | 9    |
| 4AL22CS162 | SRIJAN G ANGADI              | A    | A    | 1    | 2    | 3    | 4    | 5    | A    | 6    | A    | 7    |

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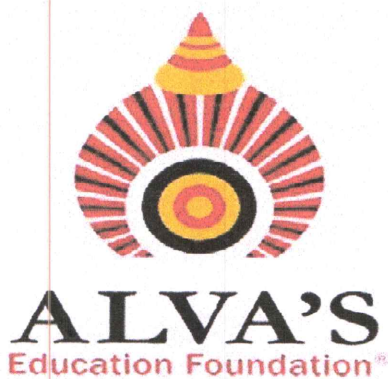
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|------------|--------------------------|------|------|------|------|------|------|------|------|------|------|
|            |                          | 2024 | 2024 | 2024 | 2024 | 2024 | 2024 | 2024 | 2024 | 2024 | 2024 |
| USN        | NAME                     | 5    | 5    | 5    | 5    | 6    | 6    | 6    | 7    | 7    | 7    |
|            |                          | 8    | 15   | 22   | 29   | 12   | 19   | 26   | 3    | 10   | 24   |
| 4AL22CS163 | SRIRAKSHA                | 1    | A    | 2    | 3    | 4    | A    | 5    | 6    | 7    | 8    |
| 4AL22CS164 | SRUJAN B N               | 1    | 2    | A    | A    | A    | A    | A    | A    | A    | 3    |
| 4AL22CS165 | SRUSHTI N B              | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   |
| 4AL22CS166 | SUDEEKSHA SHETTY         | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   |
| 4AL22CS167 | SUDEEP YALLAPPA KALAPUR  | A    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    |
| 4AL22CS168 | SUMANTH                  | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   |
| 4AL22CS169 | SUMANTH L                | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   |
| 4AL22CS170 | SUMANTH S                | A    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    |
| 4AL22CS171 | SURAJ                    | 1    | 2    | 3    | 4    | 5    | 6    | A    | 7    | 8    | 9    |
| 4AL22CS172 | SURAKSHA B R             | 1    | A    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    |
| 4AL22CS173 | SUSHMITHA                | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   |
| 4AL22CS174 | SWANJITH A K             | 1    | 2    | 3    | 4    | 5    | 6    | A    | 7    | 8    | 9    |
| 4AL22CS175 | SWAPNIL SAMBHAJI ALORI   | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   |
| 4AL22CS176 | SWAROOP SHRINIVAS SALIAN | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   |
| 4AL22CS177 | SWEEKRITHI SHETTY        | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   |
| 4AL22CS178 | TANGEVVA RUDRAPPA GADA   | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   |
| 4AL22CS179 | TARUN SHRAVANKUMAR AGA   | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   |
| 4AL22CS180 | THRISHA M S              | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | A    |
| 4AL22CS181 | V ADITYA                 | A*   | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    |
| 4AL22CS182 | VAIBHAVI MALEMATH        | A    | 1    | 2    | 3    | A*   | A    | A    | 4    | 5    | 6    |
| 4AL22CS183 | VAIGAS LOYSTON VINCENT   | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   |
| 4AL22CS184 | VANDANA H M              | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   |
| 4AL22CS185 | VARSHITHA R              | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   |
| 4AL22CS186 | VARUN H M                | A    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | A    |
| 4AL22CS187 | VARUN N R                | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   |
| 4AL22CS188 | YOGESHWARA B             | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   |
| 4AL22CS189 | YOGHANA B K              | 1    | A    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    |
| 4AL22CS190 | YUMLEMBAM HENBA SINGH    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   |
| 4AL23CS409 | SNEHA V KHANAGANVI       | 1    | 2    | A    | 3    | A    | 4    | 5    | 6    | 7    | 8    |
| 4AL23CS410 | SOUNDARYA SUDHIR SAPARE  | A    | 1    | 2    | 3    | A    | A    | A    | 4    | 5    | 6    |
| 4AL23CS411 | SRUSHTI E B              | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   |
| 4AL23CS412 | THRISHA K S              | 1    | 2    | 3    | 4    | 5    | 6    | A    | 7    | 8    | 9    |

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**ALVA'S INSTITUTE OF ENGINEERING &  
TECHNOLOGY, MOODBIDRE**



**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

# **Apple iOS LAB**

**A Report of Week Days Training on  
“FUNDAMENTALS OF iOS PROGRAMMING”**

**(29<sup>th</sup> APRIL 2024 – 25<sup>th</sup> JULY 2024)**

**For IV SEM CSE Students**

**By: Mr. Venkatesh**

**2023–24**



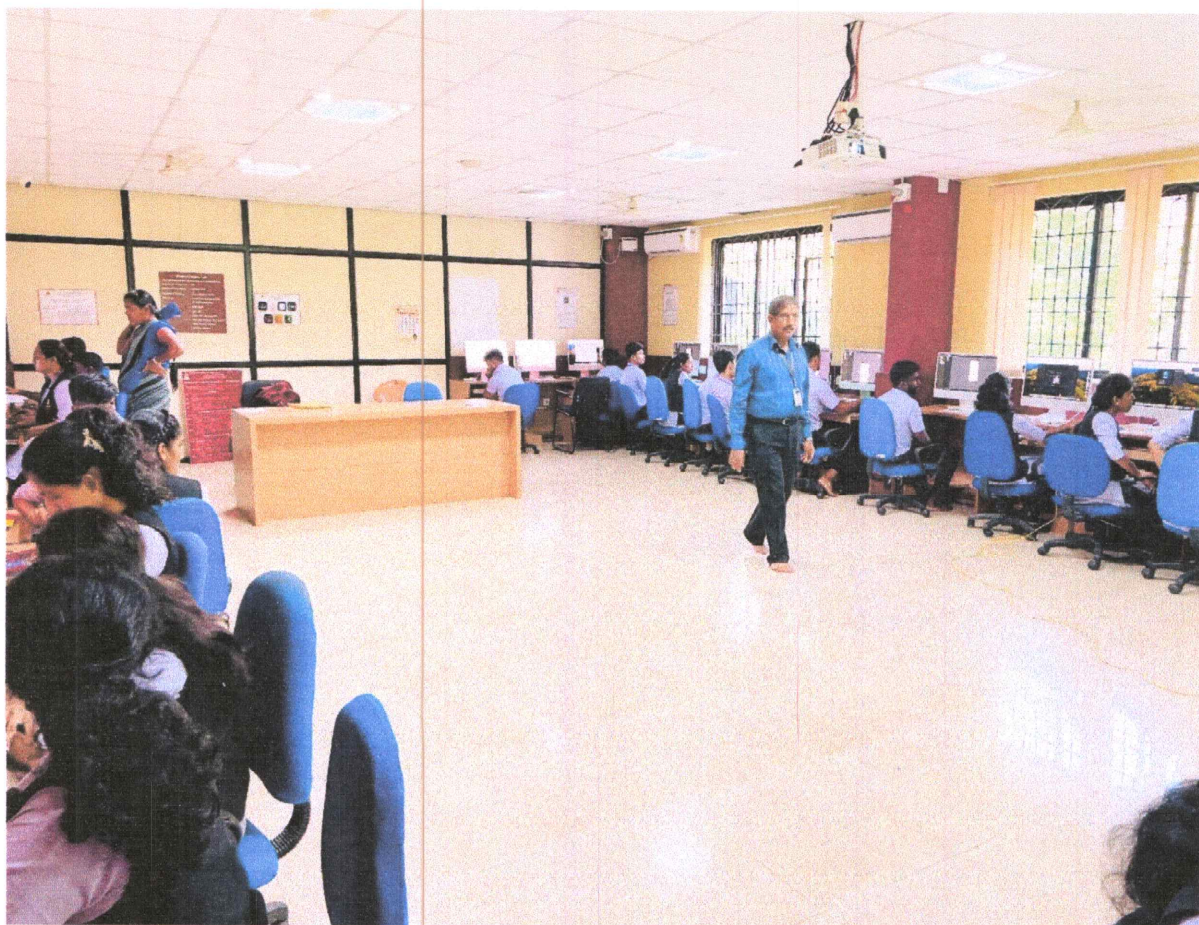
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- 2. Syllabus Covered**
- 3. List of Programs**
- 4. Apple Guided Projects**
- 5. OutCome**



## 1. Introduction

Department of CSE organized a Week Days training Program on “Fundamentals of iOS Programming” for the students of Fourth Semester B.E. CSE. The training was held from 29<sup>th</sup> April 2024 to 27<sup>th</sup> July 2024 three hours in a week for every student.



Mr. Venkatesh, Senior Associate Professor in the Department of CSE AIET, was the Trainer of this training Program. As per the direction of Dr. Manjunath Kotari, HOD CSE, all the students of fourth semester CSE class were the participants of this program. The trainer, Mr. Venkatesh divided the students into six groups having maximum of 34 students in each group. Each group students are trained three hours in every week. Ms. Yakshitha is the lab instructor helped the students in timely execution of the day-wise programs.



## 2. Syllabus Covered

The trainer Mr. Venkatesh started with Simple Program execution using Swift C Language. He covered various basic features of Swift C Programming Language like Strings, Arithmetic Operators, Logical Operators, Control Statements, Looping constructs, Arrays, Structures, Classes, Swift Optionals etc... He took around three weeks session for swift C



After Swift C, he started the iOS Programming. He begins with introducing the Components of the iOS Programming environment and its usage. He started with designing a simple iOS App called "**LightOnOff**". He continued his training by guiding the students to implement the similar App called "**ColourToggle**". He guided the students to implement these apps in many ways, by using UIButtons, by using UISwitches etc...



### **3. List of Programs**

The trainer covered the all the fundamentals of iOS App Development during his training period. Few fundamental iOS Apps were developed by the students. He also engaged the students in building three Apple guided projects.



The students are actively participated in the training program. The trainer guiding the students how to clear the different types of bugs. The bugs created by outlets and actions, the bugs created by swift files, etc....

The Few hostel students are also interested in working during late evening from 5 PM to 8 PM. If any students are pending with the program implementation, they finished it by sitting late evening in the Apple iOS Lab till 8 PM.



The list of Apps and guided projects are mentioned here below.

### **1 ColorToggle App**

Design Three Buttons in the view and name them as “BuleGreen”, “RedYellow”, “FourToggle”. First two buttons will toggle the respective colors. For FourToggle Button, the colour should toggled from White → Purple → Green → Yellow → White ...

### **2 COPY EXERCISE**

Design Two Labels, One Text Field and a Button on the view. Name the First Label with your First Name. Name the second Label with Last Name. Name the Button “SUBMIT”. By clicking the SUBMIT button, The Full name should be copied into TextField.

### **3 ArithmeticCalculation App**

Design Two TextFields with Larger Font Size and Bold. Design Four Buttons with names “ADD”, “SUBTRACT”, “MULTIPLY” and “DIVIDE” respectively. During the Execution, User should enter One integer Number in one textField and another integer Number in another text Field. By Clicking on any one Button, Perform the respective operation on these two numbers and display the result in the Third Text Field.

### **4 NameSplit App**

Design a Label Field containing Full Name. (Full Name may have First Name, Middle Name, and Last Name). Design Three Text Fields and One Button. Name the Button as “SPLIT”. Name the textFields as FirstName, MiddleName, and LastName. By clicking the SPLIT Button, the Full Name from the Label Field must be splitted into First Name, Middle Name and Last Name. Copy these three into three differnet Text Fields.



## **5 Swaping App**

Design Two TextFields and One Button. Name the Button as XCHG. During the Execution, Enter any values in two textFields. By Clicking the XCHG Button, the values in the TextFields must be swapped.

## **6 Palindrome App**

Design Two TextField and One Button. Name the Button as Palindrome. If the palindrome is clicked, if the content of the first textField is palindrome, then display the message "PALINDROME" in the Second TextField. Else Display the Message "NOT PALINDROME" in the second TextField

## **7 NegativePositiveZero App**

Design one text field score. Design one button SUBMIT. By clicking the SUBMIT Button, if the score is negative, then move to negative ViewController else if score is positive, then move to Positive View Controller else move to Zero View Controller

## **8 Multiple Usernames and Default Password app**

Design Two text fields Username and Password. Password should be secured. Design one button SUBMIT. By clicking the SUBMIT Button, if username is "aiet" or "cse" or "mijar" or "moodbidri" and default password is "1234", display the message "Welcome to username" (here username inside the message is title of username text field) in the navigationItem Title place of second view controller, otherwise display the message "Username password are incorrect".



## **9 Multiple Usernames and Multiple Password app (separate Password for different username)**

Design Two text fields Username and Password. Password should be secured. Design one button SUBMIT. By clicking the SUBMIT Button, if username is "aiet" and password is "aaaa" or user name is "cse" and password is "bbbb" or username is "mijar" and password is "cccc" or username is "moodbidri" password is "1234", display the message "Welcome to username" (here username inside the message is title of username text field) in the navigationItem Title place of second view controller, otherwise display the message "Username password are incorrect".

## **10 Incrementor App**

Design one textfield My Score1 and one Button INCREMENT1 in First view controller. One textfield My Score2 and one Button INCREMENT2 in Second view controller. One Text Field My Score3 in Third View Controller.

By clicking the Increment1 button, copy the incremented content of My Score1 to My Score2. By Clicking the Transfer2 Button, transfer the incremented content of My Score2 to My Score3.

## **11 OptionalObjectDispaly App**

Design Marks View Controller containg the marks of Four Subject. If any one mark is greater than 100, it is invalid mark. If all the marks are valid, then display Total Marks in the totalViewController and make disappear the invalid textField. If anyone marks is invalid, then display the message "INVALID MARKS" in the invalid TextField and make disappear the Total textField.



## **4. Apple Guided Projects**

### **1. Standard Simple Calculator App:**

The trainer guided the students how to develop the basic calculator prototype containing various components. This project covers the iOS Auto Layout features and Stack view concepts. After designing the calculator prototype using Auto Layout and stack-view features, he guided how to develop the program for it. All the students successfully build their simple calculator in iOS environment.

### **2. Apple Pie Game:**

This is an image view application and random number based project. This is a simple word-guessing game. Each player has a limited number of turns to guess the letters in a word. Each incorrect guess results in an apple falling off the tree. The player wins by guessing the word correctly before all the apples are gone. Whenever a round is won or lost, a new game is immediately started. If there are no more words left to guess, all buttons are disabled, and the app needs to be restarted.

### **3. Personality Quiz:**

Players are presented with a lighthearted topic and answer questions that align them to a particular outcome. Here are some examples of personality quiz topics:

What animal are you?

What country should you visit next?

Which Apple product are you?

There are no correct answers to quiz questions. Answers are purely subjective, and their results don't even have to be logical.

For example, suppose you design a quiz called “What country should you visit next?” You could pose the question “What is your favorite color?” and decide that the answer “green” aligns to Italy and not to France. Other questions and answers might make more sense. If the player prefers sushi over pasta, you could award points for Japan instead of for Italy.

This guided project will use “Which animal are you?” as the quiz topic. The four possible outcomes are: dog, cat, rabbit, and turtle. But if you prefer to choose your own topic and outcomes, go ahead. As long as you’re following the steps in the project, any topic is fine. You will learn more if you are having a good time.



Finally, the trainer strongly suggested the students to continue the self-study of advanced topics in the iOS Programming and try to develop the real time applications in iOS Environment and try to upload it to iOS App Store.



### OUTCOME

Total 201 students were registered. All 201 students were attended the training program regularly and got benefitted by this training. All the students build the three Apple Guided Projects successfully.

  
COORDINATOR

  
HOD CSE

**Head of the Department**  
Dept. of Computer Science & Engineering  
Alva's Institute of Engineering and Technology  
Mijar, Moodubidre - 574 225, D.K. Karnataka, India

  
PRINCIPAL  
Alva's Institute of Engg. & Technology  
Mijar, MOODUBIDRE - 574 225, D.K.

Date: 20-01-2024

AIET

From

VENKATESH

Faculty Coordinator

Apple iOS LAB

Department of CSE

AIET Moodbidri

To

The Principal

AIET Moodbidri

Through

The HOD CSE

Department of CSE

AIET Moodbidri

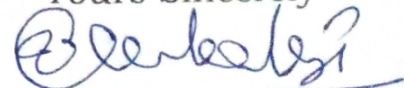
Sub: Permission to Conduct Eight Days Week-End online FDP on Apple iOS Programming using Swift C and Xcode

Respected Sir,

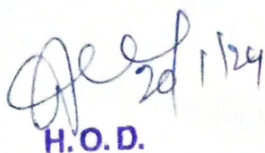
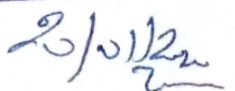
Department of CSE is planned to conduct Eight Days Week End online FDP on Apple iOS Programming using Swift C and Xcode on every Friday and Saturday in our college Apple iOS LAB from 1<sup>st</sup> February 2024 to 24<sup>th</sup> February 2024. I request you to grant the permission.

Thanking You

Yours Sincerely



(VENKATESH)



H.O.D.

Dept. Of Computer Science & Engineering  
Alva's Institute of Engg. & Technology  
Mijar, MOODBIDRI - 574 224



PRINCIPAL  
Alva's Institute of Engg. & Technology  
Mijar, MOODBIDRI - 574 225, D.K





**ALVA'S**  
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# Alva's Institute of Engineering & Technology

Shobhavana Campus, Mijar, Moodbidri, D.K - 574225  
Phone: 08258-262725, Fax: 08258-262726

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## DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

(Accredited by NBA, New Delhi 2019-2025)

Apple iOS Online FDP Using Swift and X Code

### ATTENDANCE SHEET

|     | NAME                | 02/02/2024 |    | 03/02/2024 |    | 09/02/2024 |    | 10/02/2024 |    | 16/02/2024 |    | 17/02/2024 |    | 23/02/2024 |    | 24/02/2024 |    |
|-----|---------------------|------------|----|------------|----|------------|----|------------|----|------------|----|------------|----|------------|----|------------|----|
|     |                     | AM         | PM | AM         | PM | AM         | PM | AM         | PM | AM         | PM | AM         | PM | AM         | PM | AM         | PM |
| 1.  | Mr. Venkatesh       | BP         | BP | BP         | BP | BP         | BP | BP         | BP | BP         | BP | BP         | BP | BP         | BP | BP         | BP |
| 2.  | Dr. Bramha Prakash  | BP         | BP | BP         | BP | BP         | BP | BP         | BP | BP         | BP | BP         | BP | BP         | BP | BP         | BP |
| 3.  | Dr. Chandra Naik    | BP         | BP | BP         | BP | BP         | BP | BP         | BP | BP         | BP | BP         | BP | BP         | BP | BP         | BP |
| 4.  | Ms. Ranjini         | BP         | BP | BP         | BP | BP         | BP | BP         | BP | BP         | BP | BP         | BP | BP         | BP | BP         | BP |
| 5.  | Ms. Devika          | BP         | BP | BP         | BP | BP         | BP | BP         | BP | BP         | BP | BP         | BP | BP         | BP | BP         | BP |
| 6.  | Ms. Yakshitha       | BP         | BP | BP         | BP | BP         | BP | BP         | BP | BP         | BP | BP         | BP | BP         | BP | BP         | BP |
| 7.  | Mr. Prashanth Kumar | BP         | BP | BP         | BP | BP         | BP | BP         | BP | BP         | BP | BP         | BP | BP         | BP | BP         | BP |
| 8.  | Mrs. Deeksha M      | BP         | BP | BP         | BP | BP         | BP | BP         | BP | BP         | BP | BP         | BP | BP         | BP | BP         | BP |
| 9.  | Mrs. Deepika Kamath | BP         | BP | BP         | BP | BP         | BP | BP         | BP | BP         | BP | BP         | BP | BP         | BP | BP         | BP |
| 10. | Mrs. Niveditha      | BP         | BP | BP         | BP | BP         | BP | BP         | BP | BP         | BP | BP         | BP | BP         | BP | BP         | BP |
| 11. | Ms. Rincy Jaicob    | BP         | BP | BP         | BP | BP         | BP | BP         | BP | BP         | BP | BP         | BP | BP         | BP | BP         | BP |
| 12. | Dr. G. Srinivasan   | BP         | BP | BP         | BP | BP         | BP | BP         | BP | BP         | BP | BP         | BP | BP         | BP | BP         | BP |
| 13. | Dr. Aslam Nandyal   | BP         | BP | BP         | BP | BP         | BP | BP         | BP | BP         | BP | BP         | BP | BP         | BP | BP         | BP |
| 14. | Mr. Prathap         | BP         | BP | BP         | BP | BP         | BP | BP         | BP | BP         | BP | BP         | BP | BP         | BP | BP         | BP |
| 15. | Mr. Rizwan Shaikh   | BP         | BP | BP         | BP | BP         | BP | BP         | BP | BP         | BP | BP         | BP | BP         | BP | BP         | BP |
| 16. | Mrs. Vidya          | BP         | BP | BP         | BP | BP         | BP | BP         | BP | BP         | BP | BP         | BP | BP         | BP | BP         | BP |

*[Signature]*  
**COORDINATOR**

*[Signature]*  
**HOD CSE**  
H.O.D.



ALVA'S INSTITUTE OF ENGINEERING &  
TECHNOLOGY, MOODBIDRE



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

## Apple iOS LAB

A Report of Eight Days  
Faculty Development Program  
on

**"Apple iOS App Development  
Programming using Swift C and X Code"**

(02<sup>nd</sup> February 2024 – 24<sup>th</sup> February 2024)

By: Apple Corporation

**2023-24**



## Apple iOS Training for Faculty Members

Department of CSE arranged Eight Days online Faculty Development Training Program for the faculty members of CSE Department AIET Moodbidri. The training program was started from 2<sup>nd</sup> February 2024 to 24<sup>th</sup> February 2024 every Friday and Saturday.

There are two trainers for the Faculty Development Program

|                     |                                                                                                                                                                                                                           |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mr. Amith Gulati    | Director at Codevarsity New Delhi. He is an Apple Certified Trainer Mentor<br>( <a href="https://www.linkedin.com/in/gulatiamit/?originalSubdomain=in">https://www.linkedin.com/in/gulatiamit/?originalSubdomain=in</a> ) |
| Dr. Shashidhara H S | Professor, MS Ramaiah Institute of Technology, Bangalore. He is also a Apple Certified Trainer.                                                                                                                           |

All sessions are taken as per the guidance of the chief trainer Mr. Amith Gulati.

### Training Details:

On 2<sup>nd</sup> February 2024, In the Morning Session. The trainer Mr. Amith Gulati started with creating Apple ID and registering into Slack for class room discussion during beyond the training time. All the participants created Apple ID and Slack ID.





During Afternoon Session, Dr. Shashidhara H S started his hands on session by executing some simple programs on Swift C in Xcode Playground platform. In this session, he covered the topics like Displaying the message, creating the constants and variables, different data types, arithmetic operations, Type inferences and Type annotations etc...



On 3<sup>rd</sup> February 2024, in Morning session, Dr. Shashidhara H S continued his session and covered the concepts of Control Flow and strings.

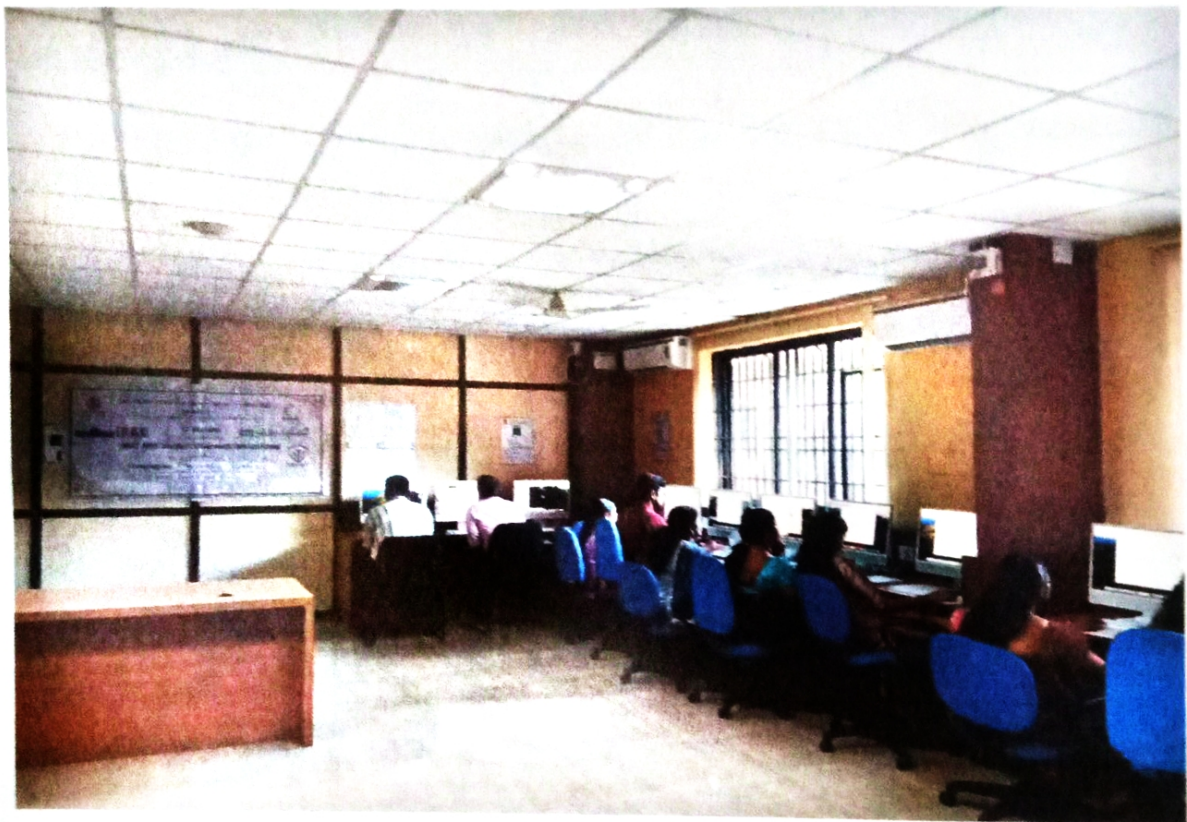
On 9<sup>th</sup> February, 2024, Mr. Amith Gulati covered the topics on basics of the functions and He gave the introduction to iOS Programming using swift C by creating small gadgets in the view and how to execute the program.

During the afternoon session, Dr. Shashidhara H S covered the detailed concepts on strings and functions in swift C and Structures.



On 10<sup>th</sup> February 2024, Morning session, Mr. Amith Gulati explored the layers of Xcode. And he made us to do some simple application in iOS. He also covered the basic concepts of structures in Playground.

In the After Session, Dr. Shashidhara H S guided us to implement one light App in iOS platform. All the participants implemented this App. He also covered the various concepts on Structures, and classes.



On 16<sup>th</sup> February 2024, Mr. Amith Gulati, refreshed the concepts on swift C Classes. Detailed concepts of structure and classes, differences between these, and Basics of Collections etc...

During the afternoon session, Dr. Shashidhara H S, covered the detailed portions on various Collections. He also made us to implement the small app using Switches, Sliding window and other controls in iOS platform. He also told us to create a multiple view Controllers.

COORDINATOR

(Mr. VENKATESH)

A handwritten signature in blue ink, appearing to be 'Venkatesh'.

A handwritten signature in blue ink, appearing to be 'H. O. D.'.  
HOD CSE  
H. O. D.

Dept. Of Computer Science & Engineering  
Alva's Institute of Engg. & Technology  
Mijar, MOODBIDRI - 574 225

A handwritten signature in green ink, appearing to be 'Principal'.

PRINCIPAL

Alva's Institute of Engg. & Technology,  
Mijar, MOODBIDRI - 574 225, D.K



# ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

(Unit of Alva's Education Foundation (R), Moodbidri)

Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi.

Recognized by Government of Karnataka.

A+, Accredited by NAAC & NBA (ECE & CSE)

Shobhavana Campus, MIJAR-574225, Moodbidri, D.K., Karnataka

Ph: 08258-262725; Mob: 722262724, 7026262725 mail:principalaiet08@gmail.com

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### SIX MONTH PLAN ON "Apple iOS Club"

From November 2023 to April 2023

Date: 21/10/2023

|    | Proposed Activity                                          | Resource Person                   | Date Approximated                      | Budget |
|----|------------------------------------------------------------|-----------------------------------|----------------------------------------|--------|
| 1. | ONE WEEK Training on Apple iOS App Development using Swift | AIET Skill Development Department | Tentatively on Second week of November | NIL    |

*Handwritten signature*  
23/10/2023

*Handwritten signature*  
H. O. D.  
Dept. Of Computer Science & Engineering  
Alva's Institute of Engg. & Technology  
Mijar, MOODBIDRI - 574 225

*Handwritten signature*  
PRINCIPAL  
Alva's Institute of Engg. & Technology,  
Mijar, MOODBIDRI - 574 225, D.K.



21-10-2023

From

VENKATESH

Senior Associate Professor

Department of Computer Science and Engineering

Alvas Institute of Engineering and Technology

Mijar, Moodbidri

To

Skill Development Coordinator

AIET Skill Development Department

AIET Moodbidri

Through

The HOD CSE

AIET Moodbidri

Sub: One Week training program on **"Apple iOS App Development using Swift"**

Respected Sir,

Department of Computer Science AIET decided to develop the skills of the AIET CSE Students in Apple iOS Programming using Swift C environment. I request you to conduct **One Week Training Program on Apple iOS App Development using Swift C** for the students of CSE department AIET. I hope you will consider this request letter and do the needful.

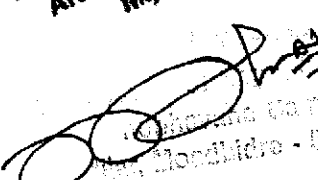
Thanking You

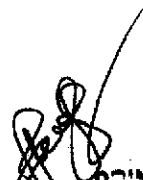
Yours faithfully

  
(VENKATESH) 21/10/2023

Recd:  
  
Skill Section

  
21/10/2023  
Dept. of Computer Science & Engineering  
Alva's Institute of Engg. & Technology  
Mijar, MOODBIDRI - 574 225

  
Principal  
Alva's Institute of Engg. & Technology  
Mijar, MOODBIDRI - 574 225

  
PRINCIPAL  
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Shobhavana Campus, MIJAR-574225, Moodbidri, D.K., Karnataka  
**ALVA'S SKILL DEVELOPMENT DEPARTMENT, AIET**

---

**Date: 21-10-2023**

**To,**

Venkatesh  
Senior associate professor  
Department of computer science and engineering  
AIET Moodbidri.

**Through**

**The HOD CSE  
AIET MOODBIDRI**

**Sub: One week training programme on "Apple IOS App Development using Swift".**

**Respected Sir,**

As request by you, we are happy to support you to conduct one week training programme on Apple IOS App Development using Swift. In order to conduct this training programme kindly procedure proposed date of training and the following student's information

1. Student name (in excel sheet)
2. USN number( in excel sheet)
3. Mail id, ( in excel sheet)
4. Adhar linked Mobil number( in excel sheet)
5. Adhar card (hard copy)
6. Passport size. photo -1(hard copy).

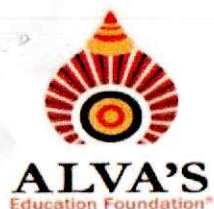
Once you provide these details process can be initiated.

Thank you,

  
Mr. Rohith A.R, MSW, (Ph.D.)  
Skill coordinator AIET  
Mob: 8147007284

  
21/10/23





# Alva's Institute of Engineering & Technology

Shobhavana Campus, Mijar, Moodbidri, D.K - 574225

Phone: 08258-262725, Fax: 08258-262726

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## DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

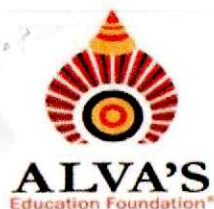
(Accredited by NBA, New Delhi 2019-2025)

Certification Course on Apple iOS App Development Using Swift and X Code - 2022-23

### REGISTRATION SHEET

|     | USN        | NAME                      | Phone Number | Email Address                   | Signature       |
|-----|------------|---------------------------|--------------|---------------------------------|-----------------|
| 1.  | 4AL22CS007 | Akhilesh H R              | 9108503988   | akhill.cse@gmail.com            |                 |
| 2.  | 4AL22CS015 | Apoorva                   | 8904580049   | apoorvapkamane@gmail.com        |                 |
| 3.  | 4AL22CS018 | Arvind Kumar Ojha         | 9572353826   | arvind22cse15@gmail.com         |                 |
| 4.  | 4AL22CS025 | Bhoomika R                | 7338566253   | bhoomi.r1230@gmail.com          | Bhoomi          |
| 5.  | 4AL22CS026 | Brijesh S K               | 6360682898   | brijesh300704@gmail.com         | Brijesh         |
| 6.  | 4AL22CS030 | Chethan Kumar             | 9845713536   | chethukumar9845@gmail.com       | Chethan Kumar   |
| 7.  | 4AL22CS036 | Deepika N                 | 9535171078   | anjali8139958932@gmail.com      | Deepika         |
| 8.  | 4AL22CS040 | Divya                     | 9380414971   | divyaprabu784@gmail.com         | Divya           |
| 9.  | 4AL22CS042 | Elluri Chaitanya Srinivas | 9110550897   | chaitanyasrinivas30@gmail.com   | E. Chaitanya    |
| 10. | 4AL22CS045 | Gajendra A                | 6360767637   | gajendraagaja567@gmail.com      | Gajendra        |
| 11. | 4AL22CS046 | Gayatri M Baligar         | 9019152294   | gayatribaligar2504@gmail.com    | Gayatri         |
| 12. | 4AL22CS047 | Glanil Tauro              | 7975402353   | glaniltauro060@gmail.com        | Glanil          |
| 13. | 4AL22CS050 | Grishma Prashant Bhandare | 8310363830   | grishmabhandare@gmail.com       | Grishma         |
| 14. | 4AL22CS053 | H Manjula                 | 6361314490   | manjulah002@gmail.com           | H Manjula       |
| 15. | 4AL22CS058 | Harshitha H N             | 7676309311   | hnharshitha1707@gmail.com       | Harshitha H N   |
| 16. | 4AL22CS068 | K Veeresh                 | 7619280422   | kveeresh288@gmail.com           | K. Veeresh      |
| 17. | 4AL22CS069 | Kanishka Shetty           | 8971845563   | kanishkashetty@gmail.com        | Kanishka Shetty |
| 18. | 4AL22CS075 | Keerthana M               | 7483132287   | keerthanakeerthi17609@gmail.com | Keerthana M     |
| 19. | 4AL22CS079 | Kusuma C D                | 8277928478   | kusumacd45@gmail.com            | Kusuma C.D      |
| 20. | 4AL22CS082 | Mahima Nayak              | 8904287462   | nayakmahima632@gmail.com        | Mahima Nayak    |
| 21. | 4AL22CS083 | Mallika K                 | 7899161005   | mallikagowda626@gmail.com       | Mallika K       |
| 22. | 4AL22CS085 | Megha Basavaraj Tambakad  | 8073693769   | meghatambakad@gmail.com         | Megha           |
| 23. | 4AL22CS087 | Mehek H N                 | 7483780107   | mehek896@gmail.com              | Mehek           |





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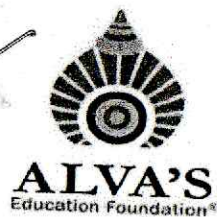
### REGISTRATION SHEET

|     | USN        | NAME                       | Phone Number | Email Address                                          | Signature   |
|-----|------------|----------------------------|--------------|--------------------------------------------------------|-------------|
| 24. | 4AL22CS090 | Mohidin Ahmed Kabeer       | 8792190783   | kabeermak88@gmail.com                                  | Kabeer      |
| 25. | 4AL22CS091 | Nausha Tendulkar           | 7411076201   | naushatendulkar24@gmail.com                            | Nausha      |
| 26. | 4AL22CS093 | Nikshitha P Rai            | 9353041306   | nikshithaprai2004@gmail.com                            | Nikshitha   |
| 27. | 4AL22CS094 | Nisarga S                  | 6363343472   | nisargas0904@gmail.com                                 | Nisarga     |
| 28. | 4AL22CS095 | Nishitha Suvarna           | 7259019347   | nishithasuvarna74@gmail.com                            | Nishitha    |
| 29. | 4AL22CS096 | Nishmitha S Shetty         | 7676591321   | nishmithas439@gmail.com                                | Nishmitha   |
| 30. | 4AL22CS100 | Pavitra Ishwarappa Talawar | 9448868759   | talawarpavitra132@gmail.com                            | Pavitra     |
| 31. | 4AL22CS106 | Prathamesh Shetty          | 6362941356   | 4al22cs106@aiet.org.in                                 | Prathamesh  |
| 32. | 4AL22CS107 | Prathi U Shetty            | 8197851509   | sprathi630@gmail.com                                   | Prathi      |
| 33. | 4AL22CS119 | Rithika P Shetty           | 9740261242   | rithikashetty474@gmail.com                             | Rithika     |
| 34. | 4AL22CS124 | Sakshi                     | 9036974572   | acharyasakshi399@gmail.com                             | Sakshi      |
| 35. | 4AL22CS146 | Shivaleela Kalasad         | 7204494039   | ramkalasad77@gmail.com shivaleela kalasad439@gmail.com | Shivaleela  |
| 36. | 4AL22CS151 | Shraddhitha P Shettigar    | 8660039121   | shraddhithapshettigar@gmail.com                        | Shraddhitha |
| 37. | 4AL22CS165 | Srushti N B                | 6364809767   | srushtiicse@gmail.com                                  | Srushti     |
| 38. | 4AL22CS175 | Swapnil Sambhaji Alori     | 6363452392   | swapnilalori62084@gmail.com                            | Swapnil     |
| 39. | 4AL22CS178 | Tangevva Rudrappa Gadad    | 7975157130   | ashwinigadad3@gmail.com                                | Tangevva    |
| 40. | 4AL22CS185 | Varshitha R                | 9972892287   | rvarshita8@gmail.com                                   | Varshitha   |
| 41. | 4AL22CS189 | Yoghana B K                | 9008298681   | yoghanabk479253@gmail.com                              | Yoghana     |

COORDINATOR

HOD CSE





# Alva's Institute of Engineering & Technology

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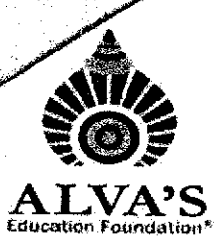
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| 3.  | 4AL22CS018 | Arvind Kumar Ojha         | 9572353826   | arvind22cse15@gmail.com         |           |
| 4.  | 4AL22CS025 | Bhoomika R                | 7338566253   | bhoomi.r1230@gmail.com          |           |
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| 10. | 4AL22CS045 | Gajendra A                | 6360767637   | gajendraagaja567@gmail.com      |           |
| 11. | 4AL22CS046 | Gayatri M Baligar         | 9019152294   | gayatribaligar2504@gmail.com    |           |
| 12. | 4AL22CS047 | Glanil Tauro              | 7975402353   | glaniltauro060@gmail.com        |           |
| 13. | 4AL22CS050 | Grishma Prashant Bhandare | 8310363830   | grishmabhandare@gmail.com       |           |
| 14. | 4AL22CS053 | H Manjula                 | 6361314490   | manjulah002@gmail.com           |           |
| 15. | 4AL22CS058 | Harshitha H N             | 7676309311   | hnharshitha1707@gmail.com       |           |
| 16. | 4AL22CS068 | K Veeresh                 | 7619280422   | kveeresh288@gmail.com           |           |
| 17. | 4AL22CS069 | Kanishka Shetty           | 8971845563   | kanishkashetty@gmail.com        |           |
| 18. | 4AL22CS075 | Keerthana M               | 7483132287   | keerthanakeerthi17609@gmail.com |           |
| 19. | 4AL22CS079 | Kusuma C D                | 8277928478   | kusumacd45@gmail.com            |           |
| 20. | 4AL22CS082 | Mahima Nayak              | 8904287462   | nayakmahima632@gmail.com        |           |
| 21. | 4AL22CS083 | Mallika K                 | 7899161005   | mallikagowda626@gmail.com       |           |
| 22. | 4AL22CS085 | Megha Basavaraj Tambakad  | 8073693769   | meghatambakad@gmail.com         |           |
| 23. | 4AL22CS087 | Mehak H N                 | 7483780107   | mehek896@gmail.com              |           |



# Alva's Institute of Engineering & Technology

Shobhavana Campus, Mijar, Moodbidri, D.K - 574225

Phone: 08258-262725, Fax: 08258-262726

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## DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING (Accredited by NBA, New Delhi 2019-2025)

Certification Course on Apple iOS App Development Using Swift and X Code - 2022-23

### REGISTRATION SHEET

|     | USN        | NAME                       | Phone Number | Email Address                     | Signature   |
|-----|------------|----------------------------|--------------|-----------------------------------|-------------|
| 24. | 4AL22CS090 | Mohidin Ahmed Kabeer       | 8792190783   | kabeermak88@gmail.com             | Kabeer      |
| 25. | 4AL22CS091 | Nausha Tendulkar           | 7411076201   | naushatendulkar24@gmail.com       | Nausha      |
| 26. | 4AL22CS093 | Nikshitha P Rai            | 9353041306   | nikshithaprai2004@gmail.com       | Nikshitha   |
| 27. | 4AL22CS094 | Nisarga S                  | 6363343472   | nisargas0904@gmail.com            | Nisarga     |
| 28. | 4AL22CS095 | Nishitha Suvarna           | 7259019347   | nishithasuvana74@gmail.com        | Nishitha    |
| 29. | 4AL22CS096 | Nishmitha S Shetty         | 7676591321   | nishmithas439@gmail.com           | Nishmitha   |
| 30. | 4AL22CS100 | Pavitra Ishwarappa Talawar | 9448868759   | talawarpavitra132@gmail.com       | Pavitra     |
| 31. | 4AL22CS106 | Prathamesh Shetty          | 6362941356   | 4al22cs106@aiet.org.in            | Prathamesh  |
| 32. | 4AL22CS107 | Prathi U Shetty            | 8197851509   | sprathi630@gmail.com              | Prathi      |
| 33. | 4AL22CS119 | Rithika P Shetty           | 9740261242   | rithikashetty474@gmail.com        | Rithika     |
| 34. | 4AL22CS124 | Sakshi                     | 9036974572   | acharyasakshi399@gmail.com        | Sakshi      |
| 35. | 4AL22CS146 | Shivaleela Kalasad         | 7204494039   | ramkalasad77@gmail.com shivaleela | Shivaleela  |
| 36. | 4AL22CS151 | Shraddhitha P Shettigar    | 8660039121   | shraddhithapshettigar@gmail.com   | Shraddhitha |
| 37. | 4AL22CS165 | Srushti N B                | 6364809767   | srushtiicse@gmail.com             | Srushti     |
| 38. | 4AL22CS175 | Swapnil Sambhaji Alori     | 6363452392   | swapnilalori62084@gmail.com       | Swapnil     |
| 39. | 4AL22CS178 | Tangevva Rudrappa Gadad    | 7975157130   | ashwinigadad3@gmail.com           | Tangevva    |
| 40. | 4AL22CS185 | Varshitha R                | 9972892287   | rvarshita8@gmail.com              | Varshitha   |
| 41. | 4AL22CS189 | Yoghana B K                | 9008298681   | yoghanabk479253@gmail.com         | Yoghana     |

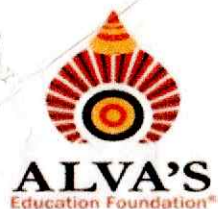
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| 24 | 4AL22CS090 | Mohidin Ahmed Kabeer       | Kabeer      | Kabeer      | Kabeer      | Kabeer      | Kabeer      | Kabeer      | Kabeer      | Kabeer      | Kabeer      | Kabeer      | Kabeer      | Kabeer      | Kabeer      | Kabeer      |
| 25 | 4AL22CS091 | Nausha Tendulkar           | N           | N           | N           | N           | N           | N           | N           | N           | N           | N           | N           | N           | N           | N           |
| 26 | 4AL22CS093 | Nikshitha P Rai            | NRai        | NRai        | NRai        | NRai        | NRai        | NRai        | NRai        | NRai        | NRai        | NRai        | NRai        | NRai        | NRai        | NRai        |
| 27 | 4AL22CS094 | Nisarga S                  | N           | N           | N           | N           | N           | N           | N           | N           | N           | N           | N           | N           | N           | N           |
| 28 | 4AL22CS095 | Nishitha Suvarna           | Nishitha    | Nishitha    | Nishitha    | Nishitha    | Nishitha    | Nishitha    | Nishitha    | Nishitha    | Nishitha    | Nishitha    | Nishitha    | Nishitha    | Nishitha    | Nishitha    |
| 29 | 4AL22CS096 | Nishmitha S Shetty         | NShetty     | NShetty     | NShetty     | NShetty     | NShetty     | NShetty     | NShetty     | NShetty     | NShetty     | NShetty     | NShetty     | NShetty     | NShetty     | NShetty     |
| 30 | 4AL22CS100 | Pavitra Ishwarappa Talawar | P           | P           | P           | P           | P           | P           | P           | P           | P           | P           | P           | P           | P           | P           |
| 31 | 4AL22CS106 | Prathamesh Shetty          | Prathamesh  | Prathamesh  | Prathamesh  | Prathamesh  | Prathamesh  | Prathamesh  | Prathamesh  | Prathamesh  | Prathamesh  | Prathamesh  | Prathamesh  | Prathamesh  | Prathamesh  | Prathamesh  |
| 32 | 4AL22CS107 | Prathi U Shetty            | Prathi      | Prathi      | Prathi      | Prathi      | Prathi      | Prathi      | Prathi      | Prathi      | Prathi      | Prathi      | Prathi      | Prathi      | Prathi      | Prathi      |
| 33 | 4AL22CS119 | Rithika P Shetty           | Rithika     | Rithika     | Rithika     | Rithika     | Rithika     | Rithika     | Rithika     | Rithika     | Rithika     | Rithika     | Rithika     | Rithika     | Rithika     | Rithika     |
| 34 | 4AL22CS124 | Sakshi                     | Sakshi      | Sakshi      | Sakshi      | Sakshi      | Sakshi      | Sakshi      | Sakshi      | Sakshi      | Sakshi      | Sakshi      | Sakshi      | Sakshi      | Sakshi      | Sakshi      |
| 35 | 4AL22CS146 | Shivaleela Kalasad         | Shivaleela  | Shivaleela  | Shivaleela  | Shivaleela  | Shivaleela  | Shivaleela  | Shivaleela  | Shivaleela  | Shivaleela  | Shivaleela  | Shivaleela  | Shivaleela  | Shivaleela  | Shivaleela  |
| 36 | 4AL22CS151 | Shraddhitha P Shettigar    | Shraddhitha | Shraddhitha | Shraddhitha | Shraddhitha | Shraddhitha | Shraddhitha | Shraddhitha | Shraddhitha | Shraddhitha | Shraddhitha | Shraddhitha | Shraddhitha | Shraddhitha | Shraddhitha |
| 37 | 4AL22CS165 | Srushti N B                | Srushti     | Srushti     | Srushti     | Srushti     | Srushti     | Srushti     | Srushti     | Srushti     | Srushti     | Srushti     | Srushti     | Srushti     | Srushti     | Srushti     |
| 38 | 4AL22CS175 | Swapnil Sambhaji Alori     | Swapnil     | Swapnil     | Swapnil     | Swapnil     | Swapnil     | Swapnil     | Swapnil     | Swapnil     | Swapnil     | Swapnil     | Swapnil     | Swapnil     | Swapnil     | Swapnil     |
| 39 | 4AL22CS178 | Tangevva Rudrappa Gadad    | Tangevva    | Tangevva    | Tangevva    | Tangevva    | Tangevva    | Tangevva    | Tangevva    | Tangevva    | Tangevva    | Tangevva    | Tangevva    | Tangevva    | Tangevva    | Tangevva    |
| 40 | 4AL22CS185 | Varshitha R                | Varshitha   | Varshitha   | Varshitha   | Varshitha   | Varshitha   | Varshitha   | Varshitha   | Varshitha   | Varshitha   | Varshitha   | Varshitha   | Varshitha   | Varshitha   | Varshitha   |
| 41 | 4AL22CS189 | Yoghana B K                | Yoghana     | Yoghana     | Yoghana     | Yoghana     | Yoghana     | Yoghana     | Yoghana     | Yoghana     | Yoghana     | Yoghana     | Yoghana     | Yoghana     | Yoghana     | Yoghana     |

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### ATTENDANCE SHEET

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| 24 | 4AL22CS090 | Mohidin Ahmed Kabeer       | Kabeer      | Kabeer      | Kabeer      | Kabeer      | Kabeer      | Kabeer      | Kabeer      | Kabeer      | Kabeer      | Kabeer      | Kabeer      | Kabeer      | Kabeer      | Kabeer      |
| 25 | 4AL22CS091 | Nausha Tendulkar           | N           | N           | N           | N           | N           | N           | N           | N           | N           | N           | N           | N           | N           | N           |
| 26 | 4AL22CS093 | Nikshitha P Rai            | NRai        | NRai        | NRai        | NRai        | NRai        | NRai        | NRai        | NRai        | NRai        | NRai        | NRai        | NRai        | NRai        | NRai        |
| 27 | 4AL22CS094 | Nisarga S                  | N           | N           | N           | N           | N           | N           | N           | N           | N           | N           | N           | N           | N           | N           |
| 28 | 4AL22CS095 | Nishitha Suvarna           | Nishitha    | Nishitha    | Nishitha    | Nishitha    | Nishitha    | Nishitha    | Nishitha    | Nishitha    | Nishitha    | Nishitha    | Nishitha    | Nishitha    | Nishitha    | Nishitha    |
| 29 | 4AL22CS096 | Nishmitha S Shetty         | Nishmitha   | Nishmitha   | Nishmitha   | Nishmitha   | Nishmitha   | Nishmitha   | Nishmitha   | Nishmitha   | Nishmitha   | Nishmitha   | Nishmitha   | Nishmitha   | Nishmitha   | Nishmitha   |
| 30 | 4AL22CS100 | Pavitra Ishwarappa Talawar | Pavitra     | Pavitra     | Pavitra     | Pavitra     | Pavitra     | Pavitra     | Pavitra     | Pavitra     | Pavitra     | Pavitra     | Pavitra     | Pavitra     | Pavitra     | Pavitra     |
| 31 | 4AL22CS106 | Prathamesh Shetty          | Prathamesh  | Prathamesh  | Prathamesh  | Prathamesh  | Prathamesh  | Prathamesh  | Prathamesh  | Prathamesh  | Prathamesh  | Prathamesh  | Prathamesh  | Prathamesh  | Prathamesh  | Prathamesh  |
| 32 | 4AL22CS107 | Prathi U Shetty            | Prathi      | Prathi      | Prathi      | Prathi      | Prathi      | Prathi      | Prathi      | Prathi      | Prathi      | Prathi      | Prathi      | Prathi      | Prathi      | Prathi      |
| 33 | 4AL22CS119 | Rithika P Shetty           | Rithika     | Rithika     | Rithika     | Rithika     | Rithika     | Rithika     | Rithika     | Rithika     | Rithika     | Rithika     | Rithika     | Rithika     | Rithika     | Rithika     |
| 34 | 4AL22CS124 | Sakshi                     | Sakshi      | Sakshi      | Sakshi      | Sakshi      | Sakshi      | Sakshi      | Sakshi      | Sakshi      | Sakshi      | Sakshi      | Sakshi      | Sakshi      | Sakshi      | Sakshi      |
| 35 | 4AL22CS146 | Shivaleela Kalasad         | Kalasad     | Kalasad     | Kalasad     | Kalasad     | Kalasad     | Kalasad     | Kalasad     | Kalasad     | Kalasad     | Kalasad     | Kalasad     | Kalasad     | Kalasad     | Kalasad     |
| 36 | 4AL22CS151 | Shraddhitha P Shettigar    | Shraddhitha | Shraddhitha | Shraddhitha | Shraddhitha | Shraddhitha | Shraddhitha | Shraddhitha | Shraddhitha | Shraddhitha | Shraddhitha | Shraddhitha | Shraddhitha | Shraddhitha | Shraddhitha |
| 37 | 4AL22CS165 | Srushti N B                | Srushti     | Srushti     | Srushti     | Srushti     | Srushti     | Srushti     | Srushti     | Srushti     | Srushti     | Srushti     | Srushti     | Srushti     | Srushti     | Srushti     |
| 38 | 4AL22CS175 | Swapnil Sambhaji Alori     | Swapnil     | Swapnil     | Swapnil     | Swapnil     | Swapnil     | Swapnil     | Swapnil     | Swapnil     | Swapnil     | Swapnil     | Swapnil     | Swapnil     | Swapnil     | Swapnil     |
| 39 | 4AL22CS178 | Tangevva Rudrappa Gadad    | Gadad       | Gadad       | Gadad       | Gadad       | Gadad       | Gadad       | Gadad       | Gadad       | Gadad       | Gadad       | Gadad       | Gadad       | Gadad       | Gadad       |
| 40 | 4AL22CS185 | Varshitha R                | Varshitha   | Varshitha   | Varshitha   | Varshitha   | Varshitha   | Varshitha   | Varshitha   | Varshitha   | Varshitha   | Varshitha   | Varshitha   | Varshitha   | Varshitha   | Varshitha   |
| 41 | 4AL22CS189 | Yoghana B K                | Yoghana     | Yoghana     | Yoghana     | Yoghana     | Yoghana     | Yoghana     | Yoghana     | Yoghana     | Yoghana     | Yoghana     | Yoghana     | Yoghana     | Yoghana     | Yoghana     |

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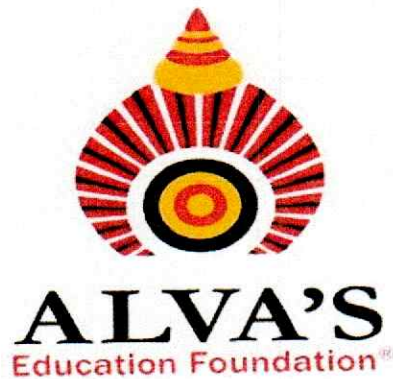
|    | USN        | NAME                       | 22/11/2023  |             | 23/11/2023  |             | 24/11/2023  |             | 25/11/2023  |             | 27/11/2023  |             | 28/11/2023  |             | 29/11/2023  |             |
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| 24 | 4AL22CS090 | Mohidin Ahmed Kabeer       | Kabeer      | Kabeer      | Kabeer      | Kabeer      | Kabeer      | Kabeer      | Kabeer      | Kabeer      | Kabeer      | Kabeer      | Kabeer      | Kabeer      | Kabeer      | Kabeer      |
| 25 | 4AL22CS091 | Nausha Tendulkar           | Nrai        | Nrai        | Nrai        | Nrai        | Nrai        | Nrai        | Nrai        | Nrai        | Nrai        | Nrai        | Nrai        | Nrai        | Nrai        | Nrai        |
| 26 | 4AL22CS093 | Nikshitha P Rai            | Nrai        | Nrai        | Nrai        | Nrai        | Nrai        | Nrai        | Nrai        | Nrai        | Nrai        | Nrai        | Nrai        | Nrai        | Nrai        | Nrai        |
| 27 | 4AL22CS094 | Nisarga S                  | Nrai        | Nrai        | Nrai        | Nrai        | Nrai        | Nrai        | Nrai        | Nrai        | Nrai        | Nrai        | Nrai        | Nrai        | Nrai        | Nrai        |
| 28 | 4AL22CS095 | Nishitha Suvarna           | Nishitha    | Nishitha    | Nishitha    | Nishitha    | Nishitha    | Nishitha    | Nishitha    | Nishitha    | Nishitha    | Nishitha    | Nishitha    | Nishitha    | Nishitha    | Nishitha    |
| 29 | 4AL22CS096 | Nishmitha S Shetty         | Nishitha    | Nishitha    | Nishitha    | Nishitha    | Nishitha    | Nishitha    | Nishitha    | Nishitha    | Nishitha    | Nishitha    | Nishitha    | Nishitha    | Nishitha    | Nishitha    |
| 30 | 4AL22CS100 | Pavitra Ishwarappa Talawar | Pavitra     | Pavitra     | Pavitra     | Pavitra     | Pavitra     | Pavitra     | Pavitra     | Pavitra     | Pavitra     | Pavitra     | Pavitra     | Pavitra     | Pavitra     | Pavitra     |
| 31 | 4AL22CS106 | Prathamesh Shetty          | Prathamesh  | Prathamesh  | Prathamesh  | Prathamesh  | Prathamesh  | Prathamesh  | Prathamesh  | Prathamesh  | Prathamesh  | Prathamesh  | Prathamesh  | Prathamesh  | Prathamesh  | Prathamesh  |
| 32 | 4AL22CS107 | Prathi U Shetty            | Prathi      | Prathi      | Prathi      | Prathi      | Prathi      | Prathi      | Prathi      | Prathi      | Prathi      | Prathi      | Prathi      | Prathi      | Prathi      | Prathi      |
| 33 | 4AL22CS119 | Rithika P Shetty           | Rithika     | Rithika     | Rithika     | Rithika     | Rithika     | Rithika     | Rithika     | Rithika     | Rithika     | Rithika     | Rithika     | Rithika     | Rithika     | Rithika     |
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| 35 | 4AL22CS146 | Shivaleela Kalasad         | Kalasad     | Kalasad     | Kalasad     | Kalasad     | Kalasad     | Kalasad     | Kalasad     | Kalasad     | Kalasad     | Kalasad     | Kalasad     | Kalasad     | Kalasad     | Kalasad     |
| 36 | 4AL22CS151 | Shraddhitha P Shettigar    | Shraddhitha | Shraddhitha | Shraddhitha | Shraddhitha | Shraddhitha | Shraddhitha | Shraddhitha | Shraddhitha | Shraddhitha | Shraddhitha | Shraddhitha | Shraddhitha | Shraddhitha | Shraddhitha |
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| 38 | 4AL22CS175 | Swapnil Sambhaji Alori     | Swapnil     | Swapnil     | Swapnil     | Swapnil     | Swapnil     | Swapnil     | Swapnil     | Swapnil     | Swapnil     | Swapnil     | Swapnil     | Swapnil     | Swapnil     | Swapnil     |
| 39 | 4AL22CS178 | Tangevva Rudrappa Gadad    | Gadad       | Gadad       | Gadad       | Gadad       | Gadad       | Gadad       | Gadad       | Gadad       | Gadad       | Gadad       | Gadad       | Gadad       | Gadad       | Gadad       |
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**ALVA'S INSTITUTE OF ENGINEERING &  
TECHNOLOGY, MOODBIDRE**



**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

## **Apple iOS LAB**

# **A Report of Training on “Apple iOS App Development Programming using Swift C and X Code”**

**(22<sup>nd</sup> November 2023 – 29<sup>th</sup> November 2023)**

**By: Mr. Venkatesh**

**2023-24**



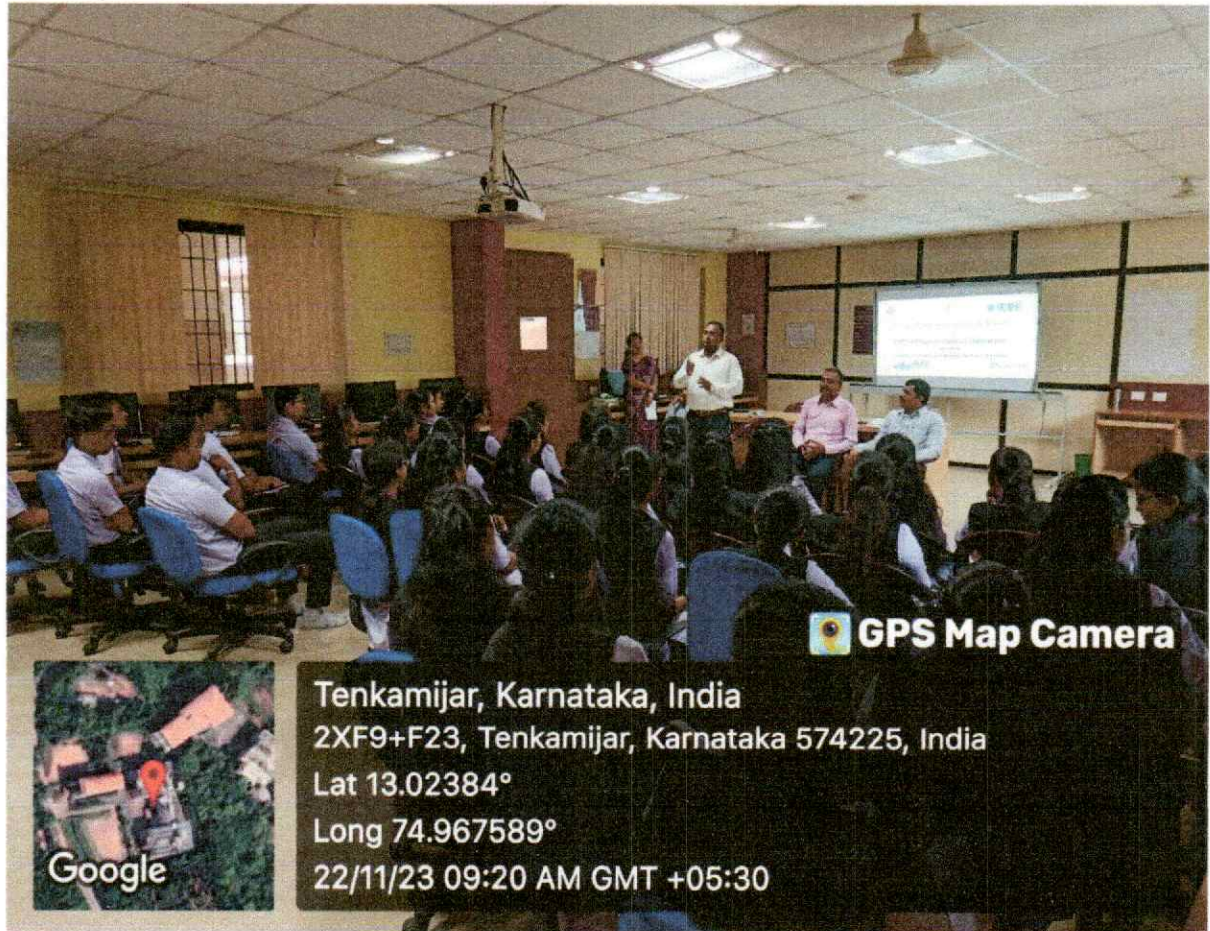
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- 2. Details of Resource Person**
- 3. Course Sessions**
- 4. List of Students Registered.**



# 1. Introduction

Department of CSE organized a One Week training Program on “Apple iOS App Development using Swift C and XCode” for the students of Third Semester B.E. CSE. The training was started on 22<sup>nd</sup> November 2023 till 29<sup>th</sup> November 2023 every day from 09.00 AM to 05.00 PM.



Mr. Venkatesh, Senior Associate Professor in the Department of CSE AIET, was the coordinator of this training Program under the guidance of Dr. Manjunath Kotari, HOD of Computer Science and Engineering department AIET Moodbidri. Mrs. Deeksha M, Senior Assistant Professor in the department of CSE was the MC of the informal inaugural program. Total 41 students were registered and 37 students were benefited from the training.



## 2. Details of Resource Person

Mr. Maheshwaran Govindaraju, started his carrier as a software trainer in Galaxy Internet Pvt Limited. Mr. Maheshwaran Govindaraju has more than 2 Decades of experience in Software Development and Corporate Training in various industries.

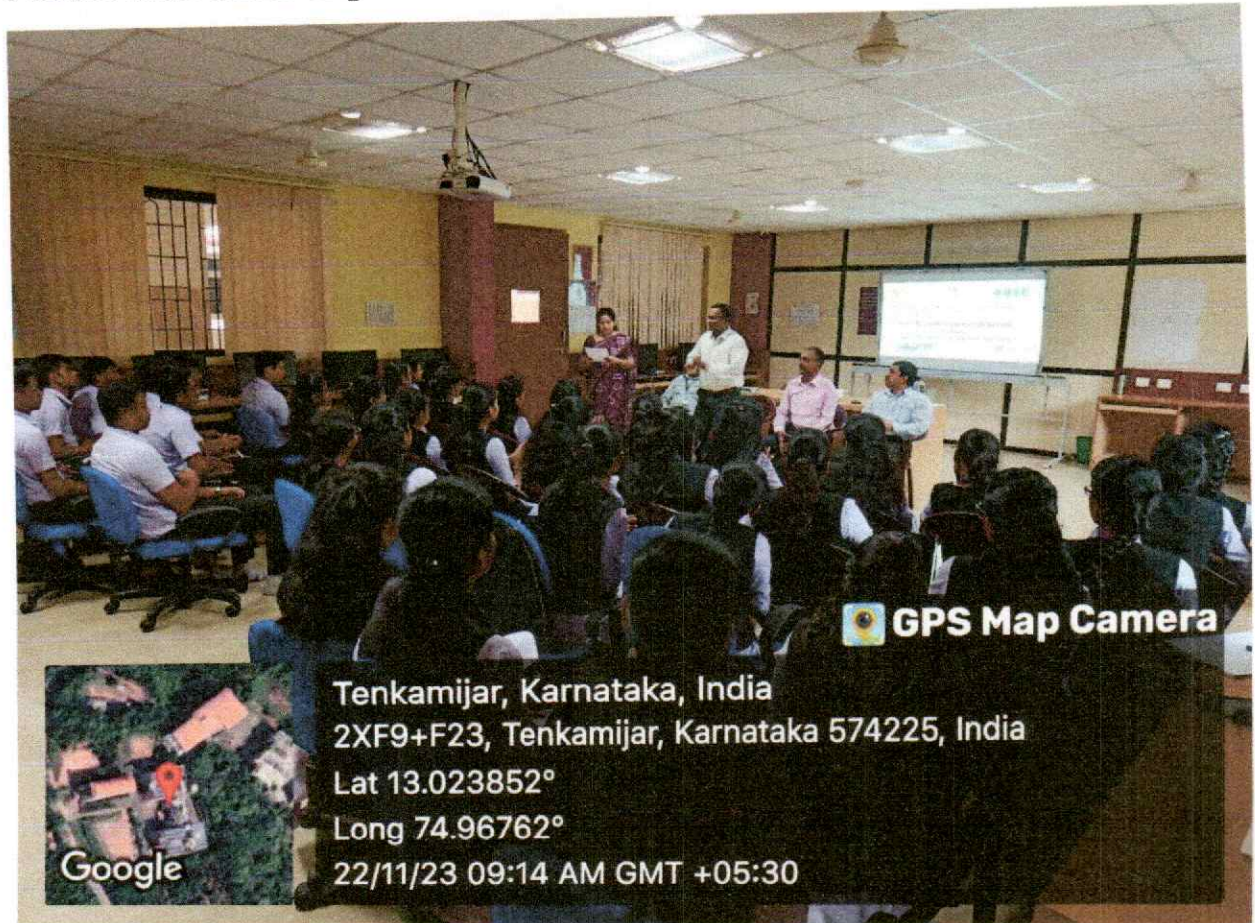
Mr. Maheswaran Govindaraju has a Domain Knowledge in ERP, Retail, Finance, Healthcare, HRM, Telecom, Server-Side Coding in C++. He has More than 18-year Experience in Project Management.



He has more experience in Software Architecture and Product development. He is expertise in .NET, J2EE, Angular, React, Oracle, SQL Server, PHP, C++ systems and so on. He is the corporate trainer for Quest Global, Experion, LnT Infotech, Tata Elxsi and many others. He applied Apple's Swift C development language to code native apps for iOS platform. Currently he is a Technical Consultant in Self Employed and Freelancer.



He started his career with Kaashyap Radian Systems Limited which has used him to give the corporate training to the companies. Thereafter he migrated to development industry where he had explored the art of the state and cutting-edge technologies, I have had solid experience in mentoring Subject Matter Experts.



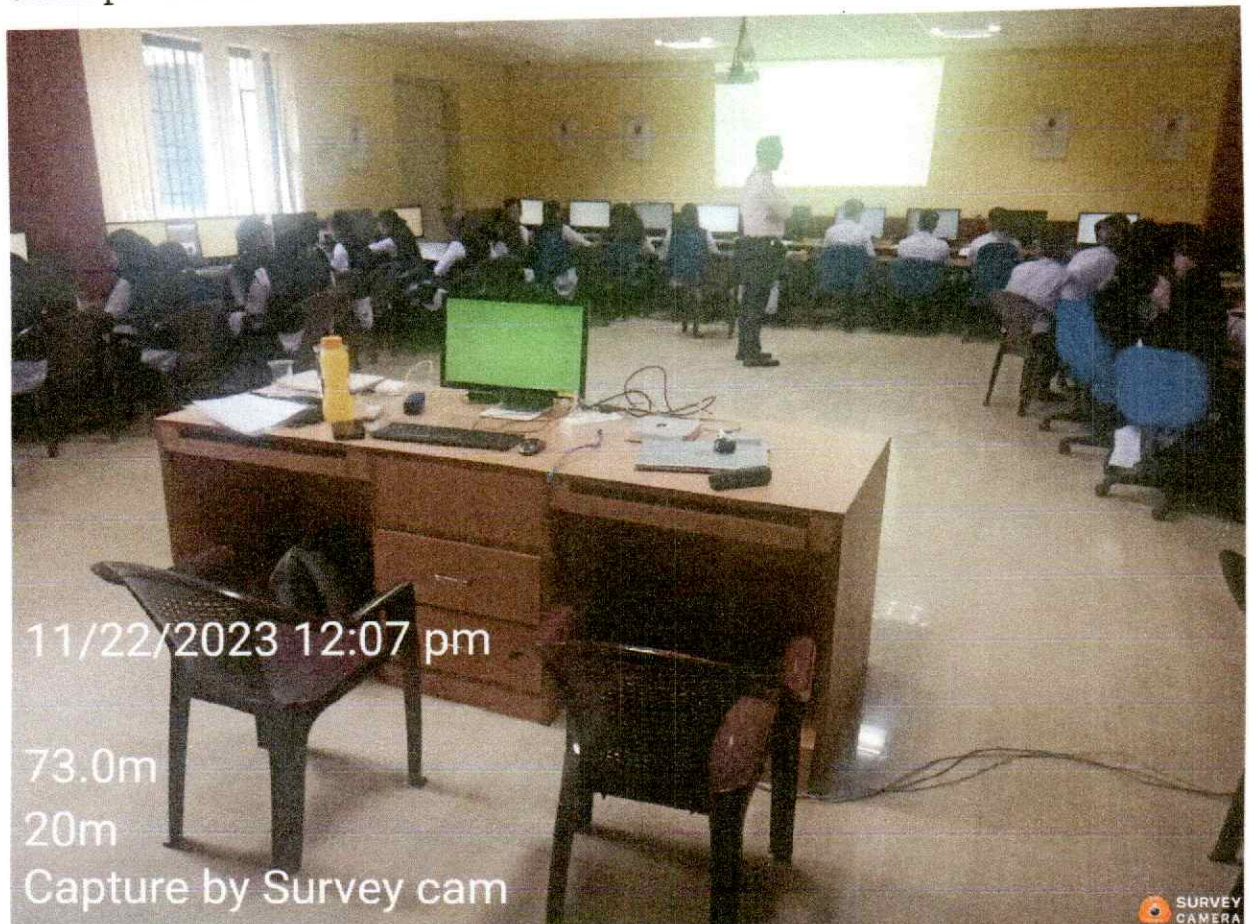
The program was started informally by introducing the trainer Mr. Maheswar Govindaraju to the students by the coordinator Mr. Venkatesh. After the introduction of the trainer, HOD CSE suggested the students to grab the opportunities of the training and to develop some apps in this environment. Chief guest of the inaugural function Mr. Nithin in his speech, informed the students to grab the opportunity of getting the free internship training the company.



### 3. Course Sessions

The trainer Mr. Maheswaran Govindaraju started the training beginning with displaying the message string using Swift C.

In the first day (22<sup>nd</sup> November 2023) morning session the trainer covered the very basic knowledges on Swift C Programming with hands on examples. With this training Students gain the knowledge on writing the simple programs in Swift C using X Code environment. He made the students to work with many more examples in Swift C.

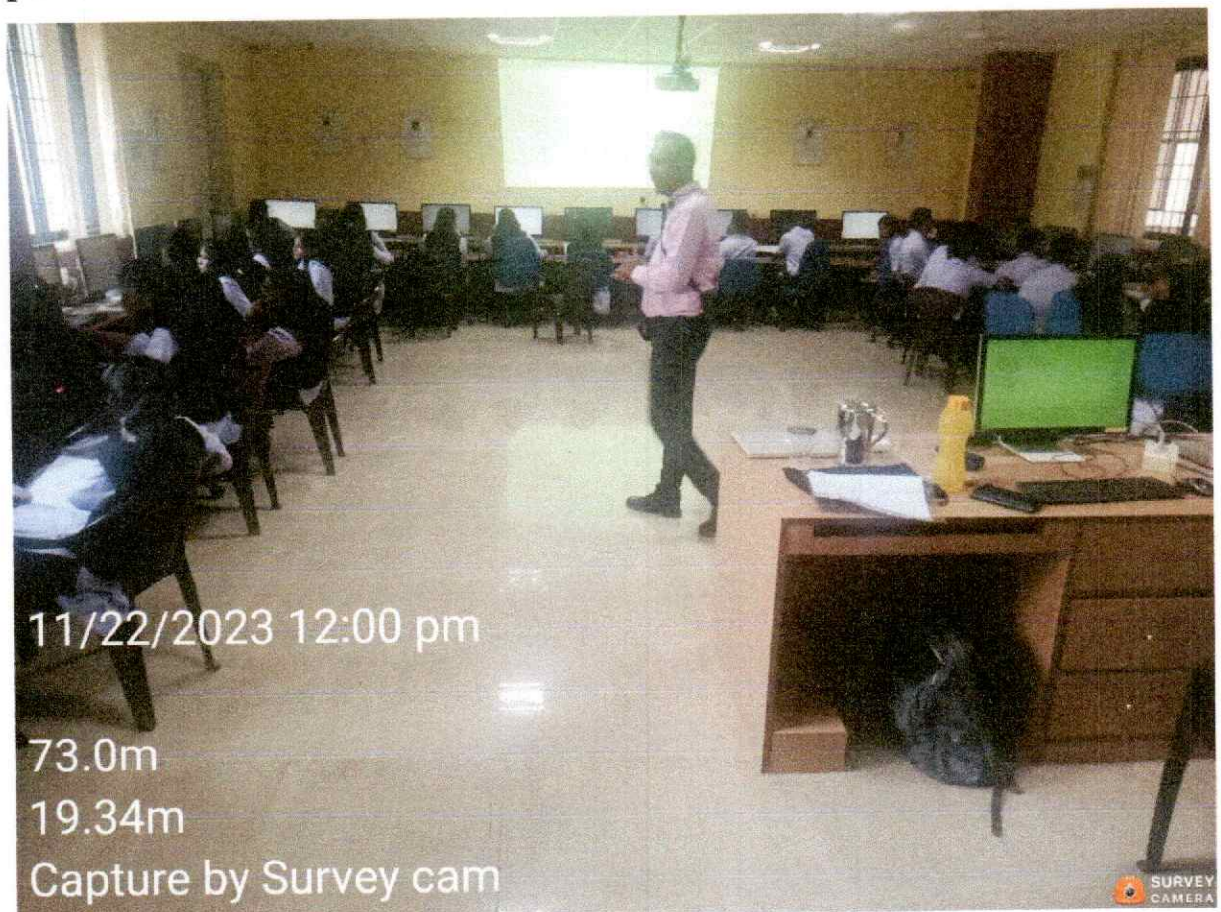


During the afternoon session on 22<sup>nd</sup> November 2023, the trainer trained the students on how to create the iOS Application. He demonstrated the very simple iOS app by designing the simple user interface with two label boxes, two text boxes and one



command button. The students were learnt how to program for this user interface to work.

On 23<sup>rd</sup> November 2023, the trainer gave some more inputs on how to define the Swift functions and how to call it. During the afternoon session, he trained the students with another exercise to design and develop a mini calculator app in iOS environment. Almost all students were implemented this app successfully. Many Students designed different types of user interfaces for this app as per their wish. This is extended on 24<sup>th</sup> November 2023 also.



The students were enjoyed in this training with writing and executing the programs to few simple problems like performing arithmetic operations and other exercises in Swift C with Xcode environment. They also enjoyed very much in designing and developing mini-iOS app like simple calculator.



On 25<sup>th</sup> November 2023, the trainer taught the students to design the game development by designing the Tic-Tac Toe game. He also trained the students how to generate the random numbers and how to use it in our applications. He made the students to work with it by playing with the random number generation.



During the After-noon session, the trainer trained the students about back-end software and its installations. He trained the students on installation of Python, Django, SQLite, and other supporting software. He also demonstrated with working of SQLite and Django by creating a student simple Database and tables. He verified all the students that whether they created the student database successfully or not. He cleared the doubts raised by the students and he corrected the few errors during the training.



On 27<sup>th</sup> November 2023 Morning session, the trainer continued his training to the students in working on these back-end. He gave several examples and made the students to work on these. Students studied CRUD Operations using Postman API.



During the after-noon session on 27<sup>th</sup> November 2023, the students studied how to merge the multiple page app. He demonstrated with an example of multipage app and merging these multiple pages. Students followed the same steps and understood this concept.

On 28<sup>th</sup> November 2023, in the morning session, the students learnt how to build a Personapp using Django, thunderbolt API.

In the afternoon session, the students are applying the CRUD Operations on Personapp.

On the 29<sup>th</sup> November 2023, the trainer continued his training to the students with Personapp.

He gave an assignment to the students to build studentapp and apply CRUD Operations on it.



Finally, the training is closed with a informal valedictory function. The AIET Skill coordinator Mr. Rohith informed the students to apply this knowledge gained during the training period in developing an app and upload it to the Appstore.



Mr. Rohith also suggested the students to contact the trainer Mr. Maheswaran Govindaraju any time when they get problem in building their app.





## 4 List of Students Registered

There are 41 students were registered for Apple iOS programming using Swift C and X Code from III SEM CSE during the academic year 2023-2024. Out of this, 36 students were benefited from this training.

|     |            |                            |
|-----|------------|----------------------------|
| 1.  | 4AL22CS007 | Akhilesh H R               |
| 2.  | 4AL22CS015 | Apoorva                    |
| 3.  | 4AL22CS025 | Bhoomika R                 |
| 4.  | 4AL22CS030 | Chethan Kumar              |
| 5.  | 4AL22CS040 | Divya                      |
| 6.  | 4AL22CS042 | Elluri Chaitanya Srinivas  |
| 7.  | 4AL22CS045 | Gajendra A                 |
| 8.  | 4AL22CS046 | Gayatri M Baligar          |
| 9.  | 4AL22CS047 | Glanil Tauro               |
| 10. | 4AL22CS053 | H Manjula                  |
| 11. | 4AL22CS058 | Harshitha H N              |
| 12. | 4AL22CS068 | K Veeresh                  |
| 13. | 4AL22CS069 | Kanishka Shetty            |
| 14. | 4AL22CS075 | Keerthana M                |
| 15. | 4AL22CS079 | Kusuma C D                 |
| 16. | 4AL22CS082 | Mahima Nayak               |
| 17. | 4AL22CS083 | Mallika K                  |
| 18. | 4AL22CS085 | Megha Basavaraj Tambakad   |
| 19. | 4AL22CS087 | Mehek H N                  |
| 20. | 4AL22CS090 | Mohidin Ahmed Kabeer       |
| 21. | 4AL22CS091 | Nausha Tendulkar           |
| 22. | 4AL22CS093 | Nikshitha P Rai            |
| 23. | 4AL22CS094 | Nisarga S                  |
| 24. | 4AL22CS095 | Nishitha Suvarna           |
| 25. | 4AL22CS096 | Nishmitha S Shetty         |
| 26. | 4AL22CS100 | Pavitra Ishwarappa Talawar |
| 27. | 4AL22CS106 | Prathamesh Shetty          |
| 28. | 4AL22CS107 | Prathi U Shetty            |
| 29. | 4AL22CS119 | Rithika P Shetty           |
| 30. | 4AL22CS124 | Sakshi                     |
| 31. | 4AL22CS146 | Shivaleela Kalasad         |
| 32. | 4AL22CS151 | Shraddhitha P Shettigar    |
| 33. | 4AL22CS165 | Srushti N B                |
| 34. | 4AL22CS175 | Swapnil Sambhaji Alori     |
| 35. | 4AL22CS185 | Varshitha R                |
| 36. | 4AL22CS189 | Yoghana B K                |



### OUTCOME

Total 41 students were registered. 36 students were attended the training program regularly and got benefitted by this training.

  
COORDINATOR

(Mr. VENKATESH)

  
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