

**ALVA'S INSTITUTE OF ENGINEERING AND  
TECHNOLOGY, MOODBIDRI**

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

Cordially invites you to the

**Inauguration of Certification Program**

On

**"Apple iOS App Development"**

**Resource Person: Mr. Mahesh Naik**  
Software Engineer, Robosoft, Udupi

**Guest of Honor: Mr. Vivek Alva**  
Managing Trustee

**President: Dr. Peter Fernandes**  
Principal, AIET, Moodbidri.

**Coordinator**

**Mr. Venkatesh Sir**  
Associate Professor

**Head of the Department**

**Dr. Manjunath Kotari**  
Professor and Head, Dept. of CSE

**Venue: Seminar Hall, First Floor, AIET Main Block@9.00AM**

- ❖ **Invocation**
- ❖ **Welcome Speech**
- ❖ **Introducing the Chief Guest**
- ❖ **Honoring the Chief Guest**
- ❖ **Inauguration**
- ❖ **Presidential Speech**
- ❖ **Vote of Thanks**





### ABOUT VTU, BELAGAVI

**Visvesvaraya Technological University** is a collegiate public state university in Karnataka State, India. It was established by the Government of Karnataka. The university is named after **M. Visvesvaraya** from Karnataka, the only engineer to be awarded a “**Bharat Ratna**”, the highest civilian award in India. Jnana Sangama, Belagavi is the headquarters of VTU. Additionally, the university has three regional centers in Bangalore, Gulbarga and Mysore. VTU is one of the largest universities in India with 212 colleges affiliated to it with an intake capacity of over 467,100 undergraduate students and 12,666 postgraduate students. The university encompasses technical and management fields which offer 30 undergraduate and 71 postgraduate courses. It has around 1800 PhD candidates. VTU has 13 QIP centers and 17 extension centers in its affiliated colleges offering postgraduate courses. It has around 2,305 departments recognized as research centers which are spread across its affiliated institutions in cities of Karnataka.

### AIET, MOODBIDRI

**Alva's Education Foundation (AEF)** established in 1995 with the vision of our Chairman **Dr. M. Mohan Alva** has succeeded in making Moodbidri, an Educational hub in the South Canara Region, with more than 25000 students pursuing various courses ranging from primary school to post-graduate courses in social sciences, pure sciences, engineering and management. There are 21 institutions functioning under the Alva's Education Foundation.

Alva's Institute of Engineering and Technology, Moodbidri is a Premier Engineering Institute of Alva's Education Foundation, established in the year 2008. The college is certified to the ISO 9001: 2008 standards. The institute offers top quality education in five under graduate programs in Engineering-Computer Science, Civil, Electronics & Communications, Information Science, and Mechanical Engineering-Three Post Graduate programs- Master of Technology in Thermal Power Engineering, Computer Science & Engineering, VLSI Design Embedded System and Master of Business Administration.

### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

The Department was started in the year 2008 with an intake of 60 for the undergraduate program. The program has become popular among students due to the achievements and rigor. The department has well-equipped classrooms and computer laboratories with high-end systems as per the AICTE norms. The department is affiliated to Visvesvaraya Technological University (VTU).

The Department carries out various Industry-Institute interaction events for the benefit of the students. The Department conducts various Seminars and Technical talks in collaboration with various Companies also. Faculty members are of many Professional societies like IEEE, ISTE, etc. With an objective of developing core competence in the respective subject specializations and for learning newer technologies, the Department has formed the various Technical divisions.

### ABOUT iOS COURSE

iOS (formerly iPhone OS) is a mobile operating system created and developed by Apple Inc. exclusively for its hardware. It is the operating system that presently powers many of the company's mobile devices, including the iPhone, and iPod Touch. It is the second most popular mobile operating system globally after Android. Originally unveiled in 2007 for the iPhone, iOS has been extended to support other Apple devices such as the iPod Touch (September 2007) and the iPad (January 2010). Major versions of iOS are released annually.

Continuing with the effort of training the members, a Student Training Program is organized on “**Apple iOS App Development**” at AIET Moodbidri by the Department of Computer Science and Engineering.

As per the current trend, due to constant change and development in digitization, our lives are improving in all areas. To deliver a quality product, we need to have Software designing skills in the Software Development Process.

### COURSE CONTENT

1. iOS overview
2. Xcode
3. Swift
  - Basic Syntax
  - Data Types
  - Variables and Constants
  - Optionals
  - Tuples
  - Operators
  - Decision Making and Loops
  - Strings and Characters
  - Arrays, Sets, Dictionaries
  - Functions and Closures
  - Enum
  - Structures and Classes
  - Inheritance
  - Initialization and Deinitialization
  - ARC overview
  - Optional Chaining
  - Type casting
  - Extensions
  - Protocols
  - Generics
  - Access Control
4. iOS Environment, UIKit, View Controllers
5. StoryBoard / xibs, Auto Layout
6. TableView, CollectionView
7. API Call
8. Core Data
9. Debugging
10. Multithreading

### RESOURCE PERSON

**Mr. Mahesh Naik**

Software Engineer,  
Robosoft, Udupi