



## ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

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

Phone: 08258- 262725, Fax: 08258-262726

Department of Computer Science & Engineering

### Summary Report of Add-on / Certificate program with its Outcomes

Academic Year : 2017-2018	Duration: 31-07-2017 to 04-02-2018
Title of the Course: Apple iOS App Development using Swift C Language and XCode	
Resource Person: Mr. Ashwath Kotian, JAVA Trainer, Probhith Technology, Moodbidri	

Department of CSE organized Certification Program on "Apple iOS App Development using Swift C Language and XCode". The certification Program was conducted from 31-07-2017 to 04-02-2018. Mr. Sudheep Jha MonkFox Bangalore was the resource person for the training program. He delivered the architecture and application of the Apple iOS app as a basic and also about creating the iOS application using Swift C, advantages and etc.

47 students of CSE Department were benefitted from this course and were able to

- Define key programming terms relevant to Swift and iOS programming.
- Describe the process of creating iOS apps.
- State the purpose of the Apple developer tools, such as Xcode, Instruments, debugger, analyzer, and iOS Simulator.



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### Department of Computer Science & Engineering

#### Summary Report of Add-on / Certificate program with its Outcomes

Academic Year : 2017-2018	Duration: 28 <sup>th</sup> October to 31 <sup>st</sup> October 2017
Title of the Course: Software Testing	
Resource Person: Mrs. Seema Nair, CEO, Calibre Code Solutions Private Limited, Bangalore.	

The department of Computer Science and Engineering had conducted a Four Days Certification Program on Software Testing from 28<sup>th</sup> October to 31<sup>st</sup> October 2017. The resource person for the certification program was Mrs. Seema Nair, CEO, Calibre Code Solutions Private Limited, Bangalore. During this course of program, Mrs. Seema Nair has covered many topics on software testing such as Testing web pages, finding bugs, off code usage in software testing, automating the web, testing ideas, recording and finding the bugs.

Totally 52 students of CSE Department were benefitted from this course and were able to

- Various test processes and continuous quality improvement.
- Types of errors and fault models.
- Methods of test generation from requirements.
- Behavior modeling using UML: Finite state machines (FSM)
- Test generation from FSM models.

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### Department of Computer Science & Engineering

#### Summary Report of Add-on / Certificate program with its Outcomes

<b>Academic Year :</b> 2017-2018	<b>Duration:</b> 22 <sup>nd</sup> January 2018 to 03 February 2018
<b>Title of the Course:</b> Web Programming and Product Development	
<b>Resource Person:</b> Mr. Chandrashekhar Rao Kuthyaru, CEO, SangamOne Services pvt ltd, Bangalore.	

Department of CSE organized a 10 days Certification Programme on "Web Programming and Product Development" from 22<sup>nd</sup> January 2018 to 03 February 2018. For the students of CSE. Mr. Chandrashekhar Rao Kuthyaru, CEO, SangamOne Services pvt ltd, Bangalore. The course was begin with simple HTML program development including Style Sheets, Java Scripts, PHP, etc

89 students of CSE Department were benefitted from this course and were able to

- Become familiar with graphic design principles that relate to web design and learn how to implement theories into practice.
- Develop skills in analyzing the usability of a web site.
- Understood how to plan and conduct user research related to web usability.

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## Department of Computer Science & Engineering


### Summary Report of Add-on / Certificate program with its Outcomes

<b>Academic Year :</b> 2017-2018	<b>Duration:</b> 16 <sup>th</sup> January, 2018 to 20 <sup>th</sup> January, 2018
<b>Title of the Course:</b> Advanced Java Programming	
<b>Resource Person:</b> Mr. Chandra Shekar Rao, Sangam One Connected Services, Bangalore.	

Department of CSE organized a 5 days Certification Programme on “Advanced Java Programming” from 16<sup>th</sup> to 20<sup>th</sup> January, 2018. Resource person Mr. Chandra Shekar Rao, Sangam One Connected Services, Bangalore. The Certification course was started with sample Java Program and students were made to make small projects every day. The resource person explained all the concepts by using hands-on session.

129 students of CSE Department were benefitted from this course and were able to

- Develop reusable programs using the concepts of inheritance, polymorphism, interfaces and packages.
- Apply the concepts of Multithreading and Exception handling to develop efficient and error free codes.
- Design event driven GUI and web related applications which mimic the real word scenarios.



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**ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY**  
Shobhavana Campus, Mijar, Moodbidri, D.K - 574225  
**DEPARTMENT OF CIVIL ENGINEERING**

**Summary Report of Add-on / Certificate program with its Outcomes**

<b>Academic Year :</b> 2017-18	<b>Duration:</b> 21 Sept 2017 to 25 sept 2017
<b>Title of the Course:</b> Auto CAD 3D	
<b>Resource Person:</b> Mr. Vinod, Proprietor, CADD Center Moodbidri	

The department conducted a Five-day Certification Course on "Auto CAD 3D" from 21 Sept 2017 to 25 sept 2017. Mr. Vinod, Proprietor, CADD Center Moodbidri is the resource person.

90 students of final year, Department of Civil engineering are benefitted from this course and were able to

- Create a detailed drawing of Civil engineering structures and structural elements. Which will create more job opportunities and build the resume of the students
- Understand the GUI of AutoCAD 3D Modeling
- Choose Materials for various building components

  
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Shobhavana Campus, Mijar, Moodbidri, D.K - 574225  
DEPARTMENT OF CIVIL ENGINEERING

## Summary Report of Add-on / Certificate program with its Outcomes

Academic Year : 2017-18	Duration: 16 Jan 2018 to 20 Jan 2018
Title of the Course: STAAD Pro Software	
Resource Person: Mr. Vinod, Proprietor, CADD Center Moodbidri	

The department conducted a Five-day Certification Course on "STAAD Pro Software" from 16 Jan 2018 to 20 Jan 2018. Mr. Vinod, Proprietor, CADD Center Moodbidri is the resource person.

90 students of final year, Department of Civil engineering are benefitted from this course and were able to

- Make isometric & perspective views and 3D shapes.
- Analyzing & designing structures like – buildings, towers, bridges, industrial, transportation and utility structures (eg: tunnels, culverts, bridges, piles, petrochemical plants; and building materials like timber, concrete, steel, cold-formed steel, and aluminium.)
- Know to perform code check, member selection and optimized member selection consisting of analysis/design cycles.

  
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**DEPARTMENT OF CIVIL ENGINEERING**

**Summary Report of Add-on / Certificate program with its Outcomes**

<b>Academic Year :</b> 2017-18	<b>Duration:</b> 22 Jan 2018 to 26 Jan 2018
<b>Title of the Course:</b> Hands on ETAB Software	
<b>Resource Person:</b> Mr. Vinod, Proprietor, CADD Center Moodbidri	

The department conducted a Five-day Certification Course on "Hands on ETAB Software" from 22 Jan 2018 to 26 Jan 2018. Mr. Vinod, Proprietor, CADD Center Moodbidri is the resource person.

90 students of final year, Department of Civil engineering are benefitted from this course and were able to

- Offer comprehensive knowledge on the ETABS software and its applications.
- Help the candidates to acquire in-depth details about the different procedures and simplified analysis aspects of the design models. The certification converts a candidate into an expert that is ready to work in the civil design industry.

  
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**Department of Electronics & Communication Engineering**

**Summary Report of Add-on/Certificate program with its Outcomes**

<b>Academic Year :</b> 2017-18	<b>Duration:</b> 9-10-2017 to 13-10-2017
<b>Title of the Course:</b> MATLAB & SIMULINK	
<b>Resource Person:</b> Mr. Madhusudhan Rao, Managing Director, Unique Global, Bangalore.	

The department conducted Certification Course on “MATLAB & SIMULINK” for final year students of Electronics and Communication Engineering from 9-10-2017 to 13-10-2017 by Mr. Madhusudhan Rao, Managing Director, Unique Global, Bangalore.

104 students of final year, Electronics and Communication Engineering are benefitted from this course and were able to

- Understand the concepts such as matrix manipulation, data input and output, different data types and the ranges in MATLAB.
- How to read text files in MATLAB, GUI related firmware.
- Simulink block set and their functions.

**Dr. D V Manjunatha**  
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Dept. Of Electronics & Communication  
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**Department of Electronics & Communication Engineering**

**Summary Report of Add-on/Certificate program with its Outcomes**

<b>Academic Year :</b> 2017-18	<b>Duration:</b> 15-09-2017 to 12-10-2017
<b>Title of the Course:</b> PCB Beginner's Course.	
<b>Resource Person:</b> Mr. Himanshu Rangadhol, CTO, Oscki Labs, AIET, Mijar	

The department conducted Certification Course on "PCB Beginner's Course" for 3<sup>rd</sup> and 5<sup>th</sup> semester students of Electronics and Communication Engineering from 15-09-2017 to 12-10-2017 by Mr. Himanshu Rangadhol, CTO, Oscki Labs, AIET, Mijar.

78 students of 3<sup>rd</sup> and 5<sup>th</sup> semester, Electronics and Communication Engineering are benefitted from this course and were able to

- Understand the basic circuit building and component learning.
- Design the schematic in e-schema.
- Design multiple circuits using PCB.
- Create Gerber file for the circuit..

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**Department of Electronics & Communication Engineering**

**Summary Report of Add-on/Certificate program with its Outcomes**

<b>Academic Year :</b> 2017-18	<b>Duration:</b> 26-02-2018 to 2-03-2018
<b>Title of the Course:</b> Introduction to Robotics.	
<b>Resource Person:</b> Mr. Santosh S. Assistant Professor, Dept of ECE, AIET, Mijar.	

The department conducted Certification Course on "Introduction to Robotics" for pre-final year students of Electronics and Communication Engineering from 26-02-2018 to 2-03-2018 from Mr. Santosh S, Assistant Professor, Dept of ECE, AIET, Mijar.

89 students of pre-final year, Electronics and Communication Engineering are benefitted from this course and were able to

- Understand the basics of Embedded System and Fire Bird V robot.
- Acquire the knowledge on AVR Microcontroller and Programming Environment.
- Control Robot velocity using PWM.
- Learn the concepts of sensor switching in robots and its programming.

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## Department of Information Science & Engineering

### Summary Report of Add-on / Certificate program with its Outcomes

<b>Academic Year :</b> 2017-18	<b>Duration:</b> 16-01-2018 to 20-01-2018
<b>Title of the Course:</b> JAVA TECHNOLOGIES	
<b>Resource Person:</b> Mr. CHANDRASEKHAR RAO K., CEO, SANGAM ONE SERVICES PVT. LTD., BENGALURU.	

The department conducted a Five-day Certification Course on “Java Technologies” from 16-01-2018 to 20-01-2018. Mr. Chandrashekhhar Rao K, CEO, SangamOne Services Pvt. Ltd., Bengaluru is the resource person. He delivered an in-depth information about the Java architecture, Basics of Java, Database Connectivity, Threads, and Java Application Development etc. Java is a widely used object-oriented programming language and software platform that runs on billions of devices, including notebook computers, mobile devices, gaming consoles, medical devices and many others.

75 students of 2<sup>nd</sup> & 3<sup>rd</sup> year, Department of ISE are benefitted from this course and were able to

- Write Java application programs using OOP principles and proper program structuring.
- Develop Java programs using packages, inheritance and interface.
- Create multithreaded programs.
- Develop Java programs having exception handling, servlets, XML handling etc.
- Build a Mini Project.

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## Department of Information Science & Engineering

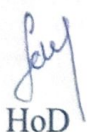
### Summary Report of Add-on / Certificate program with its Outcomes

<b>Academic Year :</b> 2017-18	<b>Duration:</b> 22-01-2018 to 03-02-2018
<b>Title of the Course:</b> WEB TECHNOLOGIES	
<b>Resource Person:</b> Mr. CHANDRASEKHAR RAO K., CEO, SANGAM ONE SERVICES PVT. LTD., BENGALURU.	

The department conducted a Ten-day Certification Course on “Web Technologies” from 22-01-2018 to 03-02-2018. Mr. Chandrashekhar Rao K, CEO, SangamOne Services Pvt. Ltd., Bengaluru is the resource person. He delivered a comprehensive and in-depth information about the Web architecture, Basics of JSP, Java script, Cascading style sheets, HTML, Responsive design for applications etc.

31 students of Final year, Department of ISE are benefitted from this course and were able to

- Understand the cross platform compatibility.
- Explain deployment of client updates via the web server with ease.
- Understand that Web based applications provide an added layer of security by removing access to the data and back end servers.
- Understand that Web based applications can offer competitive advantages to traditional software based systems allowing businesses to streamline information and processes with reduced costs.
- Create Web based applications and knowledge of product development.

  
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**Alva's Institute of Engineering and Technology,  
Mijar, Moodbidri, Mangalore  
POST GRADUATE DEPARTMENT OF BUSINESS ADMINISTRATION**

**REPORT ON OUTCOME OF CERTIFICATE COURSES CONDUCTED IN THE  
YEAR 2017-18**

**BUSINESS ENGLISH CERTIFICATION COURSE – 04.10.2017 TO 05.05.2018**

1. After the certification program, students skills in spoken English and grammar improved noticeably.
2. Students were able to prepare reports and texts for circulation among limited groups.
3. Students wrote business letters and prepared official communications.

**WORKING WITH MICROSOFT OFFICE COURSE" -13.10.2017 TO 23.02.2018**

1. Students were able to prepare professional documents using Microsoft word.
2. Students were able to develop workbook and print workbook contents.
3. Students prepared PowerPoint presentation using variety of designs and patterns.

**CERTIFICATION COURSE ON GST 06.10.2017 TO 18.06.2018**

1. Students learnt the provisions of GST Act and the implications of the new tax regime.
2. Students understood the concept of inward supply and outward supply and the GST payments.

  
DEAN

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## Department of Mechanical Engineering

### ACADEMICS YEAR 2017-18

#### Summary Report of Add-on / Certificate program with its Outcomes

**Title of the Course:** QUALITY CONTROL [DESTRUCTIVE/NON DESTRUCTIVE TESTING]

**Learning Outcomes :** The student have learnt to

- select an appropriate NDT technique as per requirement
- set various process parameters and control the NDT process for the desired output parameters.
- Find the internal flaws in the material by NDT and take measures to eliminate them.
- Various problems encountered like leakage, cracks, blowholes etc with the manufacturing process by analyzing the data.
- competent enough to make use of modern tools and softwares for analyzing and solving real life problems
- introduce environmental friendly solutions to achieve organizational sustainability

**Title of The course :** GENERAL FABRICATION WORK

**Course Outcomes :** The student have learnt to

- Build thorough knowledge of various tools, machines, devices used in engineering practice.
- Acquire thorough knowledge of carrying out various operations in mechanical engineering workshop
- Utilize measuring skills gained in workshop practice
- Acquire “Hands on” training and practice to students for use of various tools, devices and machines
- Acquire skills in basic engineering practice for creating objects from raw materials
- Utilize practical skills in guiding works the trades

**Title of the Course:** CERTIFICATION COURSES ON QUALITY PROCESS

**Course Outcomes :** The student have learnt to

- Understand the fundamental principles of Total Quality Management
- Choose appropriate statistical techniques for improving processes
- Develop research skills that will allow them to keep abreast of changes in the field of Total Quality Management

  
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