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

Academic Year : 2018-2019	**Duration:** 10-07-2018 to 17-07-2018
	30-09-2018 to 03-10-2018
Title of the Course: Apple iOS App Development using Swift C Language and XCode	
Resource Person: Mrs. Seema Nair, CEO, CalibreCode Solutions Pvt. Ltd.	

Department of CSE organized Certification Program on "Apple iOS App Development using Swift C Language and XCode". The Certification Program was conducted in 2 different phases. First Phase was conducted 10-07-2018 to 17-07-2018 and Second Phase was conducted during 30-09-2018 to 03-10-2018. Mrs. Seema Nair, CEO, CalibreCode Solutions Pvt. Ltd was the Resource Person for the Certification Program. Various App were developed and publish in Apple iOS app paly store

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

- Employ the Apple developer tools to create an iOS app.
- Demonstrate programming best practices in Swift.
- Examine and subdivide app functionality into properly designed components.
- Explain and summarize iOS API features including location, mapping, sensors, gestures, multimedia and user interface components.

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

Academic Year : 2018-2019	**Duration**: 27th August 2018 to 1st September, 2018
Title of the Course: Machine Learning using Python Programming	
Resource Person: Mr. Arun Rajpurohit and Mr. N.Sridhar Murthy, Dlithe Software, Bangalore.	

Department of CSE organized Certification Program on "Machine Learning using Python Programming". The Certification Programme was held during 27th August 2018 to 1st September, 2018. This Certification programme was held in association with Dlithe Software, Bangalore. Mr. Arun Rajpurohit and Mr. N.Sridhar Murthy Dlithe Software were the resource persons of the Certification Programme.

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

- Develop an appreciation for what is involved in Learning models from data
- Understand a wide variety of learning algorithms
- Understand how to evaluate models generated from data
- Apply the algorithms to a real problem, optimize the models learned and report on the expected accuracy that can be achieved by applying the models

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

Academic Year : 2018-2019	Duration: 3rd September 2018 to 8th September 2018
Title of the Course: **Data Science and Big Data Analytics**	
Resource Person: Mr. Dinesh Kumar Gandhi, Sr. Technical Trainer, ICT Academy, Bangalore	

Department of CSE organized Certification Program on "Data Science and Big Data Analytics". The Certification Program was held from 3rd September 2018 to 8th September 2018. This Certification program was held in association with ICT Academy Chennai and Dell-EMC, Bangalore. Mr. Dinesh Kumar Gandhi, Sr. Technical Trainer, ICT Academy was the resource person for the certification program.

Totally 122 students of CSE Department were benefitted from this course and were able to

- Analyze very large data sets in the context of real world problems.
- Develop and implement data analysis strategies base on theoretical principles, ethical considerations, and detailed knowledge of the underlying data.
- Demonstrate an ability to articulate, assess and apply appropriate theories and principles of information management.
- Apply mathematics and science in engineering applications.

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

Academic Year : 2018-2019	**Duration**: 16th January 2019 to 23rd January 2019
Title of the Course: Mobile Application Development using Android	
Resource Person: Mr. Arun V Rajpurohith Founder Dlithe Bangalore, Mr. Avinash R S, Dlithe Software, Bangalore	

Department of CSE organized 8 days National Level workshop/ Certification Program on the "Mobile Application Development using Android" from 16th January 2019 to 23rd January 2019 in association with Technical Collaboration of Computer Society of India Student Chapter and Co-Sponsored by Dlithe Bangalore. Mr. Arun V Rajpurohith Founder Dlithe Bangalore, Mr. Avinash R S Corporate were the resource person for the sessions.

35 CSE students were benefited by the course were benefitted from this course and were able to.

- Use Android Studio, Android virtual devices, and physical devices to build and test Android apps
- Understand how Java is used in Android app development.
- Understand the activity and fragment lifecycle.
- Use the fragment manager to handle fragments and fragment transitions.
- Use implicit intents to open other applications and activities and access the central contact database.

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

Academic Year : 2018-2019	**Duration**: 18th February, 2019 to 25th February 2019
Title of the Course: Cyber Security	
Resource Person: Mr. Arun V Raj Purohith, CEO Dlithe Bangalore, Mr. Deepak Bhatt, Information Security Consultant & Trainer, Infosectrain.	

8 days Certification Course on "Cyber Security" was organized from 18th February, 2019 to 25th February 2019 by Department of CSE, Alva's Institute of Engineering & Technology, Moodbidri, Karnataka with Technical Collaboration of Computer Society of India Student Chapter and Co-Sponsored by Dlithe Bangalore. Mr. Arun V Raj Purohith, CEO Dlithe Bangalore, Mr. Deepak Bhatt, Information Security Consultant & Trainer, Infosectrain were the resource person for the certification program. They both explained about the study on IPV4 addressing and to know how to set their kali Linux repository, Introduction to Linux File System and Command Line, Different Phases of Hacking, Using Various Methods of Password Cracking.

Totally 74 students of CSE department were benefited by the course were benefitted from this course and were able to.

- Protect and defend computer systems and networks from cybersecurity attacks.
- Characterize privacy, legal and ethical issues of information security.
- Define the security controls sufficient to provide a required level of confidentiality integrity, and availability in an organization's computer systems and networks.
- Diagnose attacks on an organization's computer systems and networks.
- Effectively communicate in a professional setting to address information security issues.

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

Academic Year : 2018-2019	Duration: 16th February 2019 to 23rd February 2019 22nd April 2019 to 24th April 2019.
Title of the Course: Apple iOS App Development using Swift C Language and XCode	
Resource Person: Mrs. Seema Nair, CEO, CalibreCode Solutions Pvt. Ltd	

Department of CSE organized fifty days Certification Program on "Apple iOS App Development using Swift C Language and XCode". The Certification Program was conducted in 2 different phases. First Phase was conducted from 16th February 2019 to 23rd February 2019 and Second Phase was conducted during 22nd April 2019 to 24th April 2019. Mrs. Seema Nair, CEO, Calibre Code Solutions Pvt. Ltd was the Resource Person for the Certification Program. She explained the use of Swift C and Xcode for creating the iOS app, Basic structure, Layouts, Notifications, Animations on the image etc.

Totally 36 students of CSE department were benefited by the course were benefitted from this course and were able to

- Examine and subdivide app functionality into properly designed components.
- Explain and summarize iOS API features including location, mapping, sensors, gestures, multimedia and user interface components.
- Plan, prepare and build an original iOS app, from concept to working program.

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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 : 2018-19	Duration: 19 Feb 2019 to 23 Feb 2019
Title of the Course: Sketch Up	
Resource Person: Mr. Manjunath Reddy , SAI CADD Bangalore	

The department conducted a Five-day Certification Course on "Sketch Up" from 19 Feb 2019 to 23 Feb 2019. Mr. Manjunath Reddy, SAI CADD Bangalore is the resource person. He delivered hands-on session on Revit Architecture software.

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

- Create simple building models and useful everyday shapes, from 2-D plans, elevations and sections using SketchUp 3-D modeling software.

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DEPARTMENT OF CIVIL ENGINEERING

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

Academic Year : 2018-19	Duration: 11 Mar 2019 to 15 Mar 2019
Title of the Course: Revit Architecture	
Resource Person: Mr. Vinod, Proprietor, CADD Center Moodbidri	

The department conducted a Five-day Certification Course on "Revit Architecture" from 11 Mar 2019 to 15 Mar 2019. Mr. Vinod, Proprietor, CADD Center Moodbidri is the resource person.

90 students of final year, Department of Civil engineering are benefitted from this course.

- Students will learn to do building element energy analysis; use the API to perform pipe/duct calculations; perform static analysis from the cloud; create/manage the structural analytical model; automatically update your model with analysis results; and improve BIM-based building performance workflows.

- Student will learn to scan Revit model for collisions between elements; work with multiple users and save their work to a central file; collaborate on shared models across a WAN; streamline data management; and work from remote locations using a local server.

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

Academic Year : 2018-19	Duration: 23 Apr 2019 to 27 Apr 2019
Title of the Course: Visual arts	
Resource Person: Prof. Gowri Shenoy, Prof. Sharmista Chatterji and Prof . sherigar, Professors, MIT Manipal	

The department conducted a Five-day Certification Course on "Visual arts" from: 23 Apr 2019 to 27 Apr 2019. Prof. Gowri Shenoy, Prof. Sharmista Chatterji and Prof . Sherigar, Professors, MIT Manipal

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

- Develop physical and visual skills related to the drawing process.
- Develop drawing skills, which helped students to improve the Auto CAD drafting skills.

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Department of Electronics & Communication Engineering

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

Academic Year : 2018-19	Duration: 17-09-18 to 21-09-18
Title of the Course: Advanced C	
Resource Person: Mr. Vishal C Vanaki, Managing Director, Innovation Bangalore.	

The department conducted Certification Course on "Advanced C" for 3rd year students of Electronics and Communication Engineering from 17-09-2018 to 21-09-2018 by Mr. Vishal C Vanaki, Managing Director, Innovation Bangalore.

92 students of 3rd year, Electronics and Communication Engineering are benefitted from this course and were able to

- Understand the Data types, Keywords variables, Operators, Control Statements, Loops, Array handling.
- Understand the concepts of String handling, Pointers, Structures and Unions, File handling, Dynamic Memory Allocation
- Write code for different task and obtain desired output on open CV platform.

D.V.
Dr. D V Manjunatha
H. O. D.
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Department of Electronics & Communication Engineering

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

Academic Year : 2018-19	Duration: 23-03-2019 to 16-04-2019
Title of the Course: C & Data Structure.	
Resource Person: Mr. Vishal Naik, Managing Director, Innovation Bangalore.	

The department conducted Certification Course on "C & Data Structure" for final year students of Electronics and Communication Engineering from 23-03-2019 to 16-04-2019 by Mr. Vishal Naik, Managing Director, Innovation Bangalore.

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

- Understand the C basics, Data types, Control Statements, Loops.
- Understand the concepts of String, Pointers, Structures and Unions.
- Write code for different task and obtain desired output.

Dr. D V Manjunatha

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Department of Electronics & Communication Engineering

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

Academic Year : 2018-19	Duration: 23-10-2019 to 27-10-19
Title of the Course: Python Programming.	
Resource Person: Dr.Mohideen Badhushah, Professor, Dept of CSE, AIET, Mijar.	

The department conducted Certification Course on "Python Programming" for 2nd year students of Electronics and Communication Engineering from 23-10-2019 to 27-10-19 by Dr.Mohideen Badhushah, Professor, Dept of CSE, AIET, Mijar.

95 students of 2nd year, Electronics and Communication Engineering are benefitted from this course and were able to

- Understand the concepts of Data types, Keywords, Variables.

- Understand the concepts of String handling, Pointers, Structures and Unions, File handling, Dynamic Memory Allocation

- Understand the basic and advanced programming constructs in Python.

- Write code on Anaconda Python Platform and get the desired output.

Dr. D V Manjunatha

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Department of Information Science & Engineering

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

Academic Year : 2018-19	Duration: 25-02-2019 to 27-04-2019
Title of the Course: iOS APPLICATION DEVELOPMENT	
Resource Person: Mrs. SEEMA NAIR, CEO, CALIBRECODE PVT. LTD., BENGALURU.	

The department conducted a Nine-day Certification Course on "iOS Application Development" from 25-02-2019 to 27-04-2019 in two different phases (First phase: 25-02-2019 to 02-03-2019 – Six days and Second phase: 25-04-2019 to 27-04-2019 – Three days). Mrs. Seema Nair, CEO, CalibreCode Solutions Pvt. Ltd., Bengaluru is the resource person. She delivered a comprehensive and exhaustive information about App development, Swift C, adding screens, deleting screens, background images, text field insertion etc.

41 students of 2nd Year, Department of ISE are benefitted from this course and were able to

- Identify and explore the controls on various iOS devices and practice using them.
- Identify the iOS devices that have Apple-specific components, such as the Secure Element, the motion coprocessor, and the Taptic Engine.
- Describe the steps in the process for device setup and activation, including any issues that might arise.
- Back up and sync iOS devices.
- Discuss how to use engaging questions to better troubleshoot a customer issue, including appropriate open-ended and closed questions—and overall logical question progression.
- Describe how to use the tools and resources that help evaluate a device and issue.
- Build an App.

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Department of Information Science & Engineering

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

Academic Year : 2018-19	Duration: 10-09-2018 to 14-09-2018
Title of the Course: MACHINE LEARNING	
Resource Person: Dr. THYAGRAJU G. S., PROFESSOR & HEAD, DEPARTMENT OF CSE, SDM INSTITUTE OF TECHNOLOGY, UJIRE.	

The department conducted a Five-day Certification Course on "Machine Learning" from 10-09-2018 to 14-09-2018. Dr. Thyagaraju G. S., Professor & Head, Department of CSE, SDM Institute of Technology, Ujire is the resource person. He delivered a broad and exhaustive information about Machine Learning, Artificial Intelligence, Adaptability to new data independently, various algorithms, Supervised learning, Unsupervised learning, best practices etc.

41 students of 3nd Year & Final Year, Department of ISE are benefitted from this course and were able to

- Get a good understanding of the fundamental issues and challenges of machine learning: data, model selection, model complexity, etc.
- Understand the strengths and weaknesses of many popular machine learning approaches.
- Appreciate the underlying mathematical relationships within and across Machine Learning algorithms and the paradigms of supervised and un-supervised learning.
- Design and implement various machine learning algorithms in a range of real-world applications.
- Build simple applications.

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Department of Mechanical Engineering
ACADEMICS YEAR 2018-19
Summary Report of Add-on / Certificate program with its Outcomes

Title of the Course: CATIA TRAINING

Course Outcomes: The student have learnt to

- Do advanced solutions for conceptual design, 3D modeling, and documentation.
- Do product design, industrial design and styling (optimize form, fit, function and user experience), streamline 2D design, drafting, documentation with powerful tools for layout, drawing, and 3D annotation You will do assembly design, sheet metal design, and template based design
- Perform CAE geometry editing, comprehensive meshing, fine element assembly management, multi-CAE environments.

Title of The course : Ansys for FEA

Course Outcomes : The student have learnt to

- Understand the concepts behind formulation methods in FEM.
- Identify the application and characteristics of FEA elements such as bars, beams, plane and iso-parametric elements.
- Develop element characteristic equation and generation of global equation.
- Able to apply suitable boundary conditions to a global equation for bars, trusses, beams, circular shafts, heat transfer, fluid flow, axi symmetric and dynamic problems and solve them displacements, stress and strains induced.

Title of the Course: ADDITIVE MANUFACTURING & 3D PRINTING

Course Outcomes : The student have learnt to

- Demonstrate knowledge of key historical factors that have shaped manufacturing over the centuries Explain current and emerging 3D printing applications in a variety of industries
- Describe the advantages and limitations of each 3D printing technology
- Evaluate real-life scenarios and recommend the appropriate use of 3D printing technology
- Identify opportunities to apply 3D printing technology for time and cost savings
- Discuss the economic implications of 3D printing including its impact on startup businesses and supply chains
- Design and print objects containing moving parts without assembly

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REPORT ON OUTCOME OF CERTIFICATE COURSES CONDUCTED IN THE YEAR 2018-19

ADVANCED DIPLOMA IN PAYROLL, TALLY, GST, ACCOUNTS"– 04.09.2018 TO 18.04.2019

1. Students were familiarised with the preparation of Financial Statements using TALLY software.

2. Students were introduced to the calculation of IGST, CGST and SGST and its payments.

3. Students learnt the concept of supply and its various types.

WORKING WITH MICROSOFT OFFICE COURSE" -25.10.2018 TO 23.5.2019

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.

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