



# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belgaum & Approved by AICTE, New Delhi)  
Chikkasandra, Bangalore-560057

## Index Sheet for 1.4.2

Feedback process of the Institution may be classified as follows:

Options:

- A. Feedback collected, analysed and action taken and feedback available on website
- B. Feedback collected, analysed and action has been taken
- C. Feedback collected and analysed
- D. Feedback collected
- E. Feedback not collected

**Response: A. Feedback collected, analysed and action taken and feedback available on website.**

### Department wise action taken on feedback

| Sl No | A Y     | Department | Certificate Programs Offered  | Page No |
|-------|---------|------------|---|---------|
| 1     | 2018-19 | CSE        | Cloud Computing With HADOOP Framework   | 2-3     |
| 2     | 2017-18 | ISE        | Embedded programming with ARM processor   | 4-6     |
| 3     | 2016-17 | BT         | Somatic Embryogenesis   | 7-8     |
| 4     | 2015-16 | ECE        | Image Processing using MATLAB   | 9-10    |
| 5     | 2014-15 | EEE        | “Design of external insulation from DC permanent voltage under polluted condition | 11-13   |

## POST EVENT REPORT ON CERTIFICATION COURSE

### “CLOUD COMPUTING WITH HADOOP FRAMEWORK(SGCS51)”

Department of **Computer Science & Engineering** conducted Certificate Course on “CLOUD COMPUTING WITH HADOOP FRAMEWORK (SGCS51)” from 23/7/2018 to 27/7/2018.

🎨 **Objective of the Course:** The five day course made the students to be familiar with the major concepts in CLOUD COMPUTING WITH HADOOP FRAMEWORK which is a main platform for their career. Certificate Course became the vital step to improve the knowledge of students.

🎨 **Resource Person:** Mr. DARSHAN D, SOFTWARE DEVELOPER, SAP LABS, Bangalore.

🎨 **Duration of the course:** Five days from 23/7/2018 to 27/7/2018.

The students attended the certification program. The course was successfully organized and carried out by Computer Science & Engineering department.

Speaker delivered talk and Hands on session on the following topics and the training program covered the following domains,

1. Introduction to cloud
2. Cloud computing deployment models
3. Cloud providers and their offerings
4. Challenges of cloud computing
5. Google cloud platform.

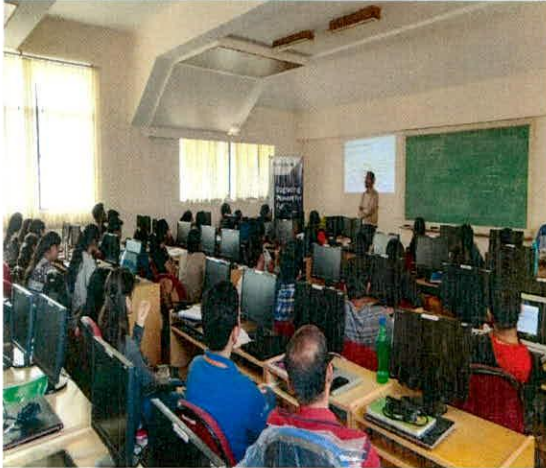
Overall the students felt that the session was informative & gain knowledge about Cloud Computing.



Principal

Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore-560 057

## FEW SCREENSHOTS OF THE PROGRAM



Speaker Mr. DARSHAN D delivering Hands On Session on Cloud Computing with hadoop.



Speaker delivering concepts on Cloud services, Security and Cloud Computing deployment Models.



Coordinator



HOD



Principal

Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore-560 057

Professor & Head of the Department  
Computer Science Engineering  
Sapthagiri College of Engineering  
Bangalore-57



# Sapthagiri College of Engineering

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#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru - 560057

## Department of Information science and Engineering Certificate Course Report

Department of ISE conducted Certificate Course on Embedded Programming with ARM processors.

Resource Person: Mr. Kumaraswamy K, Co-founder, Aiddition Technologies, Bengaluru

Duration of the course : Five days from 22-Jan-2018 to 27-Jan-2018

Objective of the Course: The five day course made the students to be familiar with the major concepts in Embedded Programming using ARM processors in KEIL IDE which is a main platform for their career. Certificate Course became the vital step to improve the knowledge of students

Learning style adopted by students, which eventually is developed into a skill of their forte. Through this course, an ecstatic learning background paved way to a positive learning environment in the class where active participation was seen from every end. Speaker took the onus of interacting with the students personally to navigate them for the academic transition by becoming the guides by their side

### Schedule of Certification Course

| Dates                | SESSION 1<br>(9.00am-11.30am)  | SESSION 2<br>(11.00am-12.30pm)   | SESSION 3<br>Hands-on Session<br>(1.30pm-4.00pm) | No. of<br>Hours |
|----------------------|--|--|--|-----------------|
| 22-1-2018<br>Monday  | Part 1: ARM Introduction <ul style="list-style-type: none"> <li>• Features of ARM</li> <li>• ARM Processor Family</li> <li>• Explanation of the features</li> <li>• ARM Processors</li> </ul>    | Part 2: ARM GIPO<br>Introduction <ul style="list-style-type: none"> <li>• What is LPC2148 and GPIO</li> <li>• How to upload the program to LPC2148 Microcontroller</li> <li>• Blinking LEDs</li> </ul> | Hands on Session                                 | 6               |
| 23-1-2018<br>Tuesday | Part 3: ARM PLL <ul style="list-style-type: none"> <li>• Symbols</li> <li>• Formulae</li> <li>• Standard Values (when PLL is used)</li> <li>• Setting up PLL</li> <li>• Procedure for</li> </ul> | Part 4: Interfacing 16X2<br>LCD <ul style="list-style-type: none"> <li>• Interfacing 16 X 2 LCD with LPC2148 ARM 7 Microcontroller</li> <li>• Pin Configuration</li> </ul>                             | Hands on Session                                 | 6               |

Principal

**Sapthagiri College of Engineering**  
14/5, Chikkasandra, Hesaraghatta Main Road  
Bengaluru - 560 057



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## Department of Information science and Engineering

|                        |   |   |                  |    |
|------------------------|---|---|------------------|----|
|                        | determining PLL Settings<br>• Peripheral Clock (PCLK)   | <ul style="list-style-type: none"> <li>• Interfacing LCD Module with LPC2148</li> <li>• Initializing the LCD Module</li> <li>• Program for Interfacing LCD with LPC2148</li> <li>• Interfacing 16X2 LCD Images</li> </ul> |                  |    |
| 24-1-2018<br>Wednesday | Part 5: ARM Timer Timers / Counters in LPC2148<br>• Registers Associated with Timers in LPC2148 | Part 5: ARM Timer Cont'd...<br><ul style="list-style-type: none"> <li>• Configuring Timers</li> <li>• Blinking LEDs using LPC2148 and Timers</li> </ul>   | Hands on Session | 6  |
| 25-1-2018<br>Thursday  | Part 6: ARM Interrupt<br>• Interrupt Related Registers in LPC2148                               | Part 6: ARM Interrupt Cont'd...<br><ul style="list-style-type: none"> <li>• Configuring Interrupts in LPC2148</li> <li>• Example program using Interrupts in LPC2148</li> </ul>   | Hands on Session | 6  |
| 27-1-2018<br>Saturday  | Embedded Systems  | Industry Perspective on Embedded Systems  | Hands on Session | 6  |
| Total                  |   |   |                  | 30 |

  
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**Sapthagiri College of Engineering**  
 14/5, Chikkasandra, Hesaraghatta Main Road  
 Bengaluru - 560 057



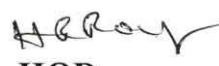
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(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)  
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057

## Department of Information science and Engineering



  
Principal  
Sapthagiri College of Engineering  
#14/5, Chikkasandra, Hesaraghatta Main Road  
Bengaluru - 560 057

  
HOD  
Dr H.R. Ranganatha  
Prof. & H.O.D  
Dept. of Information Science & Engg.  
Sapthagiri College of Engineering  
# 14/5 Chikkasandra, Hesaraghatta Main Road  
BENGALURU-560 057

### Certificate Course – Somatic Embryogenesis

#### Post Event Report

Department of BT conducted Certificate Course on Somatic Embryogenesis from 18<sup>th</sup> July 2016 to 23<sup>rd</sup> July 2016


**Objective of the Course:** The one week course made the students to be familiar with the major concepts in plant tissue culture which is a main platform for their career. Certificate Course became the vital step to improve the knowledge of students.

**Resource Person:** Mr. Rohith Raj, Managing Partner, Chlorbios Pvt. Ltd. Yalahanka Bangalore

**Duration of the course:** One week from 18<sup>th</sup> July 2016 to 23<sup>rd</sup> July 2016

Student participant in certification program



  
Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road  
Bangalore - 560 057



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

#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057

Phone: 080-28372800/1/2 www.sapthagiri.edu.in Fax: 080-28372797

## Department of Biotechnology

| Dates     | Report  |
|-----------|---|
| 18-7-2016 | Speaker delivered a talk on Importance of Plant Tissue Culture and progress in Technology, Culturing and Sub-Culturing of tissues, Hands on preparation of media for plant cell culture & explant preparation and inoculation                             |
| 19-7-2016 | Speakers delivered a talk on Monitoring and control of cell culture, Cell metabolism and its control in culture media, Hands on session on monitoring cell culture  |
| 20-7-2016 | Speakers delivered a talk on Mass propagation of plants through somatic embryogenesis, employing liquid medium in shake flasks/bioreactors, Hands on shake flask studies/Bioreactors  |
| 21-7-2016 | Speakers delivered a talk on Physico-chemical parameters affecting somatic embryogenesis in shake flasks/bioreactors, Analysis and monitoring of biomass growth, Hands on session on checking Physio-chemical parameters affecting somatic embryogenesis. |
| 22-7-2016 | Speakers delivered a talk on Polymorphisms, Types of Polymorphism, Hands on session on RFLP/ RAPD Techniques  |
| 23-7-2016 | Speakers delivered a talk on Genetic stability of Plant, Analysis of genetic stability of plants regenerated via somatic embryogenesis through RAPD technique, Hands on session on analysis of genetic stability using RAPD Techniques.                   |

Conclusion: These programs prepare students to complete a specific task or allow them proficiency in one of the particular aspect of their field. Students are able to learn about somatic embryogenesis. Certificate programs to helps the students study to round out their education for their own personal fulfillment and interest for professional advancement or personal interest.

**Principal**

Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta  
Bangalore-560 057

**HOD**  
Head of the Department  
Dept. of Bio -Technology  
Sapthagiri College of Engineering  
No. 57/1, Chikkasandra  
Hesaraghatta Main Road  
Bangalore - 560 057



**ELECTRONICS & COMMUNICATION ENGINEERING**

**Certification Course Report**

Department of ECE conducted Certificate Course on Image Processing using MATLAB.

- **Guest Speaker:** (i) Prof. H C Sateesh Kumar, Associate Professor, Department of ECE, SaiVidya Institute of Technology, Bengaluru.  
(ii) Shobha S., Assoc. professor, Dept. of ECE, SCE, Bengaluru
- **Duration of the course :** Five days from 27-07-2015 to 31-07-2015
- **Course details :** Image Processing using MATLAB

**Objective of the Course:** The five day course made the students to be familiar with the concepts of Image Processing. Certification Course became the vital step to improve the knowledge of students

**Certification Course session wise report**

| Dates      | SESSION 1<br>(8.30am-10.15am)  | SESSION 2<br>(10.30am-12.30pm)  | SESSION 3<br>Hands-on Session<br>(1.30pm-4.00pm)   |
|------------|--|---|--|
| 27-07-2015 | Speaker delivered lecture on Image Types & Converting image from one-color format to another color formats | Speaker delivered talk on Different Image Enhancement                                       | Hands on session on Reading a gray scale and color images & image enhancement techniques |
| 28-07-2015 | Speaker delivered lecture on different spatial and frequency domain Filtering techniques.                  | Students learnt about applying morphological operations to images                           | Hands on session on spatial filtering  |
| 29-07-2015 | Students were introduced to different Image Restoration Techniques   | Speaker delivered lecture on Feature Extraction methods for Segmentation and Edge Detection | Hands on session on Restoration techniques   |
| 30-07-2015 | Students learnt Image Registration and Image Reconstruction methods  | Students learnt different morphological operations  | Hands on session on morphological operations   |
| 31-07-2015 | Students were introduced with Case Studies & Hands on session  | Students were introduced with Case Studies & Hands on session                               | Students were introduced with Case Studies & Hands on session                            |

*[Signature]*  
**Principal**  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bengaluru - 560057

**ELECTRONICS & COMMUNICATION ENGINEERING**



**Students attending the course with the speaker**

**Conclusion:**

Certification course made the students comfortable with using MATLAB for Image Processing. Learning style adopted by students, which eventually is developed into a skill of their forte. Through this course, an ecstatic learning background paved way to a positive learning environment in the class where active participation was seen from every end. Faculty took the onus of interacting with the students personally to navigate them for the academic transition by becoming the guides by their side. Faculty members were also equally benefited with the course. They felt more expedient while delivering the lectures as the margin was erased between these students and others. A structured environment was created. This Course helped the student to improve their knowledge in Image Processing.



Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore- 560 057



HOD

Head of the Department  
Electronics & Communication  
Sapthagiri College of Engineering  
Bangalore- 560 057.



### Certificate Course Report

**Department of EEE** conducted Certificate Course on: "Design of external insulation from DC permanent voltage under polluted condition"

**Guest Speaker:** Dr Muralidhar, Associate Professor, Jain University, Bangalore-562112.

**Duration of the course:** five days from Jan 27<sup>th</sup> 2015 to Jan 31<sup>st</sup> 2015

**Course detail:**

**Objective of the Course:** The five day course made the students to be familiar with the topic. The importance of fulfilling the requirements. The high voltage DC transmission lines and links up to 600 kV are already operational in many countries. The strong development of HVDC system in the last decade has brought new experiences and has motivated extensive investigations in several fields in order to achieve a higher reliability and an optimum design.

With reference to the insulation coordination aspect the investigations were mainly focused on the performance of insulators in polluted condition because service experience indicates that a sensible fraction of faults were definitely caused by pollution events, under operating voltage.

#### Schedule of Certification Course

| Dates                   | SESSION 1<br>(9.00am-10.30am)   | SESSION 2<br>(11.00am-12.30pm)   | SESSION 3<br>Hands-on Session<br>(1.30pm-4.00pm)  | No. of<br>Hours |
|-------------------------|---|--|---|-----------------|
| 27-01-2015<br>Tuesday   | <ul style="list-style-type: none"> <li>Introduction mechanism of flashover under pollution Contamination mechanism</li> <li>To identify the mechanisms responsible for these differences</li> </ul> | <ul style="list-style-type: none"> <li>Models of this kind are described, in connection with simple geometries, in As an example, the model firstly defined by Alston</li> </ul> | <ul style="list-style-type: none"> <li>Hands on Polluted strip between two electrodes. The distance between these electrodes</li> </ul> | 6               |
| 28-01-2015<br>Wednesday | <ul style="list-style-type: none"> <li>The limit of the polluted surface, both as regards to surface water density</li> </ul>   | <ul style="list-style-type: none"> <li>heat flow.</li> <li>surface conductivity</li> </ul>   | <ul style="list-style-type: none"> <li>Hands on Collections system of DC permanent voltage</li> </ul>                                   | 6               |
| 29-01-2015<br>Thursday  | <ul style="list-style-type: none"> <li>The conditions of water mass</li> <li>balance and heat balance within an infinitesimal element of the surface in ar.</li> </ul>                              | <ul style="list-style-type: none"> <li>Zoledziowski is considered which refers to the simple case of a flat</li> </ul>   | <ul style="list-style-type: none"> <li>Hands on Arrangement balance and heat balance on polluted air condition</li> </ul>               | 6               |

Principal

Sapthagiri College of Engineering  
14/5, Chikkasandra, Hesaraghatta Main Road  
Bengaluru - 560 057



## Department of Electrical & Electronics Engineering

|                        |  |  |   |    |
|------------------------|--|--|---|----|
| 30-01-2015<br>Friday   | <ul style="list-style-type: none"> <li>As regards the dynamic characteristics of the pollution layer during wetting</li> </ul>                     | <ul style="list-style-type: none"> <li>Dry band formation, up to the ignition of</li> <li>the first arc</li> <li>define, respectively, the conditions of water mass</li> </ul> | <ul style="list-style-type: none"> <li>Hands on Design of Insulation</li> </ul>                   | 6  |
| 31-01-2015<br>Saturday | <ul style="list-style-type: none"> <li>it is Necessary to have a knowledge of the relation between the concentration of surface wetness</li> </ul> | <ul style="list-style-type: none"> <li>electrical conductivity as well as the boundary conditions</li> <li>Wet band formation</li> </ul>                                       | <ul style="list-style-type: none"> <li>Hands on Design of External Insulation and Test</li> </ul> | 6  |
| Total                  |  |  |   | 30 |

**Conclusion:** Certificate course made them comfortable with practical knowledge. Learning style adopted by students, which eventually is developed into a skill of their forte. Through this course, an ecstatic learning background paved way to a positive learning environment in the class where active participation was seen from every end. Faculty took the onus of interacting with the students personally to navigate them for the academic transition by becoming the guides by their side

It is a practice of the department to take care of any issues pertaining to the academics. In this connection department of EEE has conveyed meeting with Faculty members to discuss about any lapses with academic activities and felt the need to conduct a certificate Course. As part of Certificate course 4 faculty members were identified and assigned duties and responsibilities to carry out the Certificate course.





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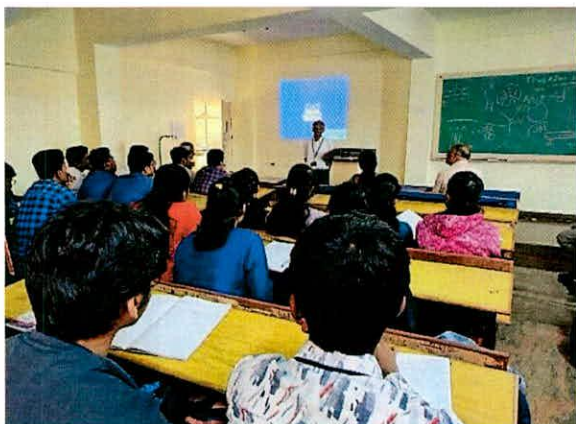
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru - 560057

Phone: 080-28372800/1/2


[www.sapthagiri.edu.in](http://www.sapthagiri.edu.in)

Fax: 080-28372797

## Department of Electrical & Electronics Engineering



  
Principal  
Sapthagiri College of Engineering  
14/5, Chikkasandra, Hesaraghatta Main Road  
Bengaluru - 560057

  
HOD,EEE  
PROF & HOD  
Department of Electrical & Electronics Engineering  
Sapthagiri College of Engineering  
Bengaluru - 560057.