

**2016-17**

**6.3.3 List of professional development /administrative training programs organized by the institution for teaching and non-teaching staff during academic year 2016-17**

| <b>Dates (from-to) (DD-MM-YYYY)</b> | <b>Title of the professional development program organized for teaching staff</b> | <b>Title of the administrative training program organized for non-teaching staff</b> | <b>Page NO</b> |
|-------------------------------------|---|--|----------------|
| 21/1/2017 - 23/1/2017               | NAAC Workshop   |  | <b>3--11</b>   |
| 19/01/2017                          | IPR Awareness Program   |  | <b>12—20</b>   |
| 3/1/2017 - 7/1/2017                 | Waste Analysis And Management   |  | <b>21—30</b>   |
| 3/1/2017 - 7/1/2017                 | Soil structure interaction  |  | <b>31--38</b>  |
| 3/1/2017 - 7/1/2017                 | Mathematics for Machine Learning  |  | <b>39--45</b>  |
| 3/1/2017 - 7/1/2017                 | New concepts in network and cyber security  |  | <b>46—56</b>   |
| 3/1/2017 - 7/1/2017                 | Contemporary Topologies in Power Electronics Circuits.                            |  | <b>57--64</b>  |
| 3/1/2017 - 7/1/2017                 | Python Programming  |  | <b>65—72</b>   |
| 3/1/2017 - 7/1/2017                 | A Course in teaching techniques of Applied Thermodynamics                         |  | <b>73—78</b>   |
| 15/12/2016                          |   | Time management  | <b>79—84</b>   |
| 9/12/2016                           |   | Talk on effective office administration and Finance management                       | <b>85—90</b>   |
| 13/09/2016                          | Importance of patents for engineering faculty                                     |  | <b>91—95</b>   |
| 8/8/2016                            | FDP on innovative bussiness and break through technologies                        |  | <b>96—101</b>  |
| 27/6/2016 - 30/6/2016               | Pragramatic Approach to Cloud computing   |  | <b>102—109</b> |
| 12/7/2016 - 16/7/2016               | Synthesis And Development Of Metal Oxide Nanoparticle                             |  | <b>110—119</b> |
| 12/7/2016 - 16/7/2016               | Alternate building materials  |  | <b>120—127</b> |
| 12/7/2016 - 16/7/2016               | Computer Networking using NS2   |  | <b>128—138</b> |
| 12/7/2016 - 16/7/2016               | MATLAB Basics & Hands on training   |  | <b>139—146</b> |
| 12/7/2016 - 16/7/2016               | Mobile application Development  |  | <b>147—155</b> |
| 12/7/2016 - 16/7/2016               | Smart Materials & Structures  |  | <b>156—161</b> |

# INVITATION

*Cordially invite you for*

*Workshop on*

*"NAAC"*

**Jan 21<sup>st</sup> -23<sup>rd</sup>, 2017**

**Resource person:**

**Dr. Venkateshappa K S,  
Professor Alliance university**


**Venue: seminar hall**

**Time: 10:00 AM**




**Principal**

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

  
**Saptarshi**

**Chikkasandra**

**Bangalore-560 057**

  
**IQAC Co-ordinator**

**Heasarghatta**

**Heasarghatta Road**

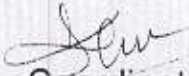


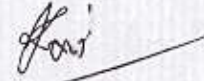
## Internal Quality Assurance Cell

Date: 13/1/2017

### Circular

It is to the information of all faculties that there is one day workshop on "NAAC" from 21/1/2017 to 23/1/2017. So all the faculties are requested to attend the program in the main seminar hall from 9.00am.

  
Coordinator


  
Chairman

CC:

1. The Principal, for Kind information
2. To All HODs
3. Notice Boards
4. IQAC file

  
Principal

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

  
Principal

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





# SAPTHAGIRI COLLEGE OF ENGINEERING

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

#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru- 560 057.

Web: [www.sapthagiri.edu.in](http://www.sapthagiri.edu.in), Email: [principal@sapthagiri.edu.in](mailto:principal@sapthagiri.edu.in)

Phone: 080-28 372800/1/2 Fax: 080-28 372797

Academic Year: 2016- 2017

## Three days workshop on "NAAC"

On

January 21<sup>st</sup> -23<sup>rd</sup> 2017

Program schedule:

| DATE/DAY   | TIME                | EVENT,SPEAKER &TOPIC COVERED  | VENUE        |
|------------|---------------------|---|--------------|
| 21/01/2017 | 9:00 am-10:00 am    | Inaugural function  | Seminar Hall |
|            | 10:00 AM -10:40 am  | Introduction  | Seminar Hall |
|            | 10:40 am -11 :00 am | Tea break   | Seminar hall |
|            | 11:00 am -1:00 pm   | Lecture-1:<br>• Benefits of accreditation<br>• Eligibility criteria | Seminar hall |
|            | 1:00 pm- 2:00pm     | Lunch break   | Seminar hall |
|            | 2:00pm -4:00 pm     | Lecture-2:<br>• Criteria & weightages<br>• Units of assessment<br>• | Seminar hall |
| 22/01/2017 | 9:00 am-10:00 am    | Lecture-3:<br>• Grading<br>• Cycles of accreditation                | Seminar Hall |
|            | 10:00 AM -10:40 am  | Tea break   | Seminar Hall |

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

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Chikkasandra, Hesaraghatta Main Road  
Bengaluru - 560 057



|            |                    |   |              |
|------------|--------------------|---|--------------|
|            | 11:00 am -1:00 pm  | <b>Lecture-4:</b> <ul style="list-style-type: none"> <li>institutional eligibility for quality assessment (IEQA)</li> <li>compliance</li> </ul> | Seminar hall |
|            | 1:00 pm- 2:00pm    | Lunch break   | Seminar hall |
|            | 2:00pm -4:00 pm    | <b>Lecture-5:</b> <ul style="list-style-type: none"> <li>NAAC process</li> </ul>  | Seminar hall |
| 23/01/2017 | 9:00 am-10:00 am   | <b>Lecture-6:</b> <ul style="list-style-type: none"> <li>Advantages of CGPA</li> <li>Grievance redressal</li> </ul>                             |              |
|            | 10:00 AM -10:40 am | Tea break   |              |
|            | 11:00 am -1:00 pm  | <b>Lecture-7:</b> <ul style="list-style-type: none"> <li>Re-assessment</li> </ul>   |              |
|            | 1:00 pm- 2:00pm    | Lunch break   |              |
|            |                    |   |              |

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

Sapthagiri  
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IQAC Co-ordinator



# SAPTHAGIRI COLLEGE OF ENGINEERING

## 3 DAYS WORKSHOP ON



# NAAC

## ORGANIZED BY IQAC

DR H R RANGANATHA (IQAC HEAD)

The objective of this workshop is to provide the teaching faculties the knowledge about NAAC, cycles of NAAC process, how to apply for NAAC and other information.

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28372 800  
/1/2



21-23 JAN  
2017



FARADAY  
BLOCK

### CHIEF GUEST

**DR. VENKATESHAPPA K S,**  
(PROFESSOR, ALLIANCE UNIVERSITY, BENGALURU)

### CHIEF PATRONS

**SRI. G DAYANAND**

(Chairman, Sri. Srinivasa Educational  
& Charitable Trust, Sapthagiri Group  
of Institutions, Bengaluru)

**SRI. G D BALAJI**

(Executive Director, Sri. Srinivasa  
Educational & Charitable Trust,  
Sapthagiri Group of Institutions,  
Bengaluru)

**SRI. G D MANOJ**

(Executive Director, Sri. Srinivasa  
Educational & Charitable trust,  
Sapthagiri group of institutions,  
Bengaluru)

**DR ASHWATH KUMAR**

(Principal, Sapthagiri College of  
Engineering, Bengaluru)

Principal  
Sapthagiri College of Engineering  
14/5, Chikkaandra, Heasareghatta Main Road  
Bengaluru - 560 057

Sapthagiri  
Chikkaandra  
Bengaluru



### Attendance Report of NAAC Workshop

From 21/1/2017 to 23/1/2017

| Sl | Name of the faculty |        |        |        |        |        |        |
|----|---------------------|--------|--------|--------|--------|--------|--------|
| 1  | Drashtant           |        |        |        |        |        |        |
| 2  | Dixuan N's          |        |        |        |        |        |        |
| 3  | Ashwini             |        |        |        |        |        |        |
| 4  | Tharshik            |        |        |        |        |        |        |
| 5  | Shobha S            |        |        |        |        |        |        |
| 6  | Reiger              |        |        |        |        |        |        |
| 7  | Blaryan P           |        |        |        |        |        |        |
| 8  | Sunil C             |        |        |        |        |        |        |
| 9  | Shobha              |        |        |        |        |        |        |
| 10 | Kavitha Y           |        |        |        |        |        |        |
| 11 | Ragini K            | Ragini | Ragini | Ragini | Ragini | Ragini | Ragini |
| 12 | Subrata             |        |        |        |        |        |        |
| 13 | Anurag              |        |        |        |        |        |        |
| 14 | mohe                |        |        |        |        |        |        |
| 15 | Ashwini             |        |        |        |        |        |        |
| 16 | Prakish             |        |        |        |        |        |        |
| 17 | Kopale              |        |        |        |        |        |        |
| 18 | Bindu               |        |        |        |        |        |        |
| 19 | Santhosh C          |        |        |        |        |        |        |
| 20 | A. Dharmaraj        |        |        |        |        |        |        |
| 21 | Abhishek            |        |        |        |        |        |        |
| 22 | S. N. R. K.         |        |        |        |        |        |        |
| 23 | Sneha               |        |        |        |        |        |        |
| 24 | KAMYA M             |        |        |        |        |        |        |
| 25 | Gopesh              |        |        |        |        |        |        |
| 26 | Shobha              |        |        |        |        |        |        |
| 27 | Kavya               |        |        |        |        |        |        |
| 28 | Swathi              |        |        |        |        |        |        |
| 29 | Bhargavi            |        |        |        |        |        |        |
| 30 | MAMATHA             |        |        |        |        |        |        |
| 31 | Hemavathi           |        |        |        |        |        |        |
| 32 | Kavitha             |        |        |        |        |        |        |
| 33 | Shashank            |        |        |        |        |        |        |
| 34 | Nandini B           |        |        |        |        |        |        |
| 35 | Devi                |        |        |        |        |        |        |
| 36 | Dr. K. S. S. S. S.  |        |        |        |        |        |        |
| 37 | Rajya               |        |        |        |        |        |        |
| 38 | Divya               |        |        |        |        |        |        |
| 39 | Sunil               |        |        |        |        |        |        |

Principal



Web: [www.sapthagiri.edu.in](http://www.sapthagiri.edu.in), Email: [principal@sapthagiri.edu.in](mailto:principal@sapthagiri.edu.in)

From 21/1/2017 to 23/1/2017

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



## Report on NAAC workshop

This workshop on NAAC conducted for teaching faculties is to get the knowledge about NAAC , cycles of NAAC process , how to apply for NAAC and other information. about given by the speaker Dr. Venkatesh, professor from alliance university.

### SUMMARY:

The speaker explained NAAC process and its importance of NAAC in today's world, faculty from all departments attended the Workshop from Jan 21<sup>st</sup> 2017 to Jan 23<sup>rd</sup> 2017 in Sapthagiri college of engineering. While designing the structure of program it was kept in mind that all the faculties should aware of importance of NAAC.



Fig: discussion about revised concepts of NAAC process

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

  
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Chikkasandra, Hesaraghatta Road,  
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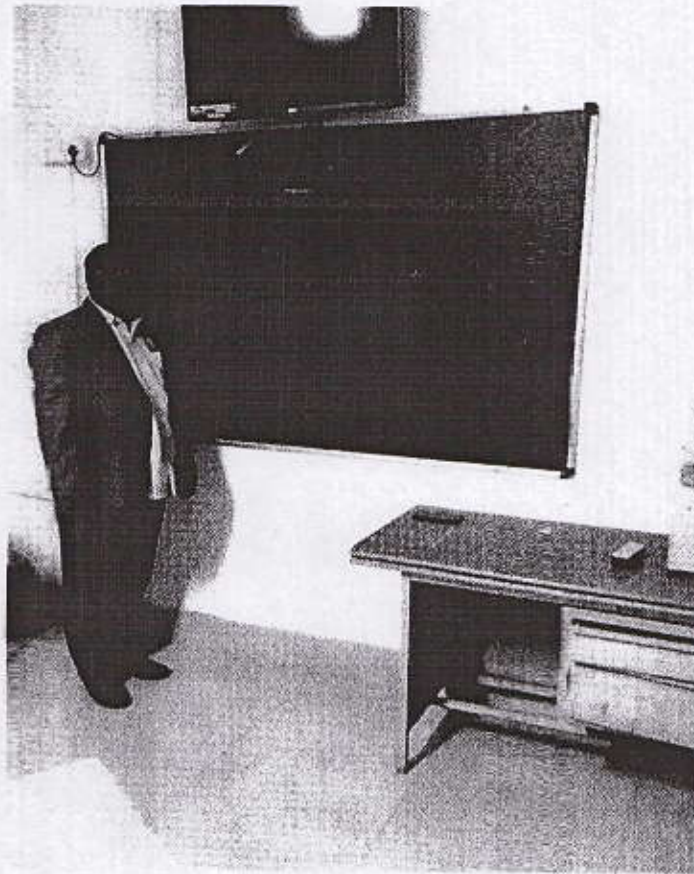
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Academic Year: 2016- 2017



Principal

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

Principal

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





Ravi T &lt;library@sapthagiri.edu.in&gt;

**Fwd: IPR Awareness program**

1 message

Principal <principal@sapthagiri.edu.in>  
 To: hods@sapthagiri.edu.in

Tue, Aug 9, 2016 at 12:54 PM

----- Forwarded message -----

From: PIC-KSCST &lt;patent@kscst.iisc.ernet.in&gt;

Date: Mon, Aug 1, 2016 at 10:59 AM

Subject: IPR Awareness program

To: principal@sapthagiri.edu.in, principal@sctengineering.in, principal@ssec.ac.in, sreis@gmail.com,  
 principal@vib.ac.in

Dear Sir,

Sub: Awareness Programme on Intellectual Property Rights (IPR)

We wish to introduce our Patent Information Centre (PIC). PIC was started in Karnataka State Council for Science and Technology (KSCST) in 2005 with the support of Technology Information Forecasting and Assessment Council, Department of Science and Technology (GOI), with the intention of creating awareness amongst students, innovators and others in Karnataka, about Intellectual Property Rights (IPR)

IPR includes patents, copyrights, trademark, geographical indications etc. PIC has organized 62 awareness workshops in various Engineering Colleges, Universities, and District Industries Centers across the state. You might be well aware of Student Project Program of our KSCST in which most of the Engineering Colleges in the State participate (in which the Council supports student projects - technically and financially - and has been organizing since last 38 years).

We wish to organize an Awareness Program on IPR at your esteemed institution. The purpose is to create awareness on IPR, particularly among students who take project / research work during course of their studies. Hence, the target participants would be mainly final year engineering students, postgraduate students and faculty members and number of participants would be about 100.

The program will consist of two presentations (one hour each) on IPR - 'Introduction to IPR', and 'Indian Patenting System'. This will be followed by a question-answer session. We would also provide some literature regarding IPR.

Kindly suggest your willingness and convenient date for the same. The Council will take care of arranging of Resource person, travel expenses and honorarium. You may provide other infrastructure facilities such as seminar hall, laptop, Projector and light Refreshments etc. We request you to let us know your opinion of our proposal.

Thanking you,

Yours Sincerely,

C R Praceep, M.Sc.  
 9880222939  
 PIC -Project Coordinator  
 Patent Information Centre  
 Karnataka State Council for Science and Technology  
 Indian Institute of Science

Submitted: It is hereby requested to approve & same to conduct/org a programme on IPR @ our college premises.

Per 2/19  
 CHIEF LIBRA

THE PRINCIPAL  
 SAPTHAGIRI COLLEGE OF ENGINEERING  
 APPROX cost for the program  
 is Rs 4000/-



This message has been scanned for viruses and dangerous content by MailScanner, and is believed to be clean.

M.E., MISTE, Ph.D., MIEEE, FIETE

Phone : 080 28378000/1/2/3, 9880703600

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



1/2016

Bangalore - 560 012  
Ph: (080) 2334 1652 / 8848

Patent Information Centre  
Karnataka State Council for Science and Technology  
Indian Institute of Science  
Bangalore - 560 012  
Ph: (080) 2334 1652 / 8848

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Indian Institute of Science  
Bangalore - 560 012  
Ph: (080) 2334 1652 / 8848

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



SAPTHAGIRI COLLEGE OF ENGINEERING,  
BENGALURU-57

Date: 16.01.2017

CIRCULAR

This is to inform all the HoD's and Faculty members that, The Sapthagiri College of Engineering organized an Awareness Programme on Intellectual Property Rights (IPR) in association with Patent Information Centre, Karnataka State Council for Science and Technology, Indian Institute of Science, Bangalore on 19<sup>th</sup> Jan 2017 at our campus. Hence all HoD's faculty members are requested to attend the same without fail.


Venue: Room 305 (Academic Block) Time: 10.15AM

Program details

*Ist Technical Session: Introduction to IPR by Mr.C.R.Pradeep,  
Coordinator and Consultant PIC, KSCST 10.30 to 11.15AM*

*2nd Technical Session: Patenting Mechanism in India by  
Ms.Bhavya, PIC, consultant and Advocate 11.15 to 12.30PM*

  
PRINCIPAL

  
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Bangalore- 560 057



**Sapthagiri College of Engineering**  
IPR awareness program held on 19th Jan 2017

| Sl.No | Name of the faculty    | Depat      | In Time  | Signature              |
|-------|------------------------|------------|----------|------------------------|
| 01    | Dr Ananda S            | Biotech    | 10:10 am | Alb                    |
| 02    | VINOMYA BHAGAVAN       | CIVIL      | 10:10 am | Vishu Bhagavan         |
| 03    | Bharya N.P             | Maths      | 10:10    | B                      |
| 04    | Roopa.K.R              | Maths      | 10:10    | A                      |
| 05    | Nandini B.J            | Maths      | 10:10    | Nandini                |
| 06    | Bindu M.G              | Maths      | 10:10    | B                      |
| 07    | Dr. Pankaj Kumar       | CSE        | 10:15 am | P. S. S. Kumar         |
| 08    | Dr. B S Krishna        | Chemistry  | 10:15 am | Dr. B S Krishna        |
| 09    | Suma V Shetty          | ECE        | 10:15 AM | Suma V Shetty          |
| 10    | Vasishini K.           | ECE        | 10:15 AM | Vasishini K.           |
| 11    | Shwetha G.             | ECE        | 10:15 AM | Shwetha G.             |
| 12    | SHILPA.V.              | ECE        | 10:15 AM | Shilpa V.              |
| 13    | Preeti T.S.            | ECE        | 10:15 AM | Preeti T.S.            |
| 14    | Priya Priyanka Chaithe | ISE        | 10:15 am | Priya Priyanka Chaithe |
| 15    | Blessy B. Mathew       | BT         | 10:15 am | Blessy B. Mathew       |
| 16    | Dr. Chaitanya Lakshmi  | Chemistry  | 10:15 am | Dr. Chaitanya Lakshmi  |
| 16    | Kavya M.V              | B.T        | 10:15 AM | Kavya M.V              |
| 17    | Prabesh ST             | ISE        | 10:15 AM | Prabesh ST             |
| 18    | Karthik R.C.           | CSE        | 10:15 AM | Karthik R.C.           |
| 17    | Prasanth K.            | CSE        | 10:15 am | Prasanth K.            |
| 18    | Prof. Pulka B.V        | HOD. Maths | 10:15 AM | Prof. Pulka B.V        |
| 19    | Swamy Somnath          | ISE        | 10:17 AM | Swamy Somnath          |
| 20    | Tejaswini B.S          | ISE        | 10:17 AM | Tejaswini B.S          |
| 21    | Praneetha G.N          | ISE        | 10:17 AM | Praneetha G.N          |
| 22    | Bharya A               | ISE        | 10:17 AM | Bharya A               |
| 23    | Meghana N.M            | ISE        | 10:17 AM | Meghana N.M            |
| 24    | Munirathnam M          | Maths      | 10:20 AM | Munirathnam M          |
| 25    | Devarega C             | Phy        | 10:20 am | Devarega C             |
| 26    | Ambika S               | ISE        | 10:20 am | Ambika S               |
| 27    | Bijula J               | ISE        | 10:20 am | Bijula J               |
| 28    | Ravi Chandra M         | ISE        | 10:20 am | Ravi Chandra M         |
| 29    | Keshava Murthy         | Phy        | 10:30 AM | Keshava Murthy         |



**Sapthagiri College of Engineering**  
IPR awareness program held on 19th Jan 2017

| Sl.No | Name of the faculty      | Depat | In Time | Signature |
|-------|--------------------------|-------|---------|-----------|
| 30.   | Nagaraj. H.P             | EEE   | 10.20   |           |
| 31.   | Anitha Murthy            | EC    | 10:20   |           |
| 32    | Vijayalakshmi            | EC    | "       |           |
| 33.   | Naveen H                 | EC    | "       |           |
| 34    | Mala Thi K.P.            | ISE   | 10.20   |           |
| 35    | Suma.C                   | ECE   | 10.20   |           |
| 36    | Chaitan P                | ECE   | 10:20   |           |
| 37    | Prasanna. B.M            | CHC   | 10.20   |           |
| 38.   | Roop. K.B                | CHC   | 10.20   |           |
| 39    | Prof. Satish Murthy      | ECE   | 10:25   |           |
| 40    | Prathima. C.N            | ME    | 10:25   |           |
| 41    | Kennetha. G              | CSE   | 10:25   |           |
| 42    | Veena. K.R               | CSE   | 10:25   |           |
| 43    | Shobha Hegde             | ELP   | 10-20   |           |
| 44    | Dr. Jagadeeshagambhi     | phy   | 10.30   |           |
| 45    | Kamalakshi Naganna       | CSE   | 10.20   |           |
| 46    | Ramya M                  | EEE   | 10:30   |           |
| 47    | Sweetha.G                | EEE   | 10-30   |           |
| 48.   | Jaydev. D.D              | ECE   | 10:30   |           |
| 49    | Anoop                    | CSE   | 10:30   |           |
| 50    | Chetan.                  | CSE   | 10:30   |           |
| 51    | Gayathri R               | ISE   | 10.30   |           |
| 52    | Ananda H.V               | B.T   | 10:30   |           |
| 53    | Chaitra                  | ISE   | 10:30   |           |
| 54    | Ganaprasanna             | EEE   | "       |           |
| 55    | P. Rukmangada            | ECE   | 10-30   |           |
| 56    | Dr. K. Ananthan          | Ch    | 10.30   |           |
| 57    | A.M. Mahesh              | Mech. | 10:30   |           |
| 58    | C.P. Venkatasubrahmanyam | Mech  | 10-30   |           |
| 59    | Rajeev. Arilari          | CSE   | 10:30   |           |
| 60    | Dr. Girish. K.B          | Mech  | 10:30   |           |
| 61    | Anny Thomas              | CSE   | 10:30   |           |



Sapthagiri College of Engineering

IPR awareness program held on 19th Jan 2017

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

#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru- 560 057.

Web: [www.sapthagiri.edu.in](http://www.sapthagiri.edu.in), Email: [principal@sapthagiri.edu.in](mailto:principal@sapthagiri.edu.in)

Phone: 080-28 372800/1/2 -228 Fax: 080-28 372797

### Report on Intellectual Property Right Topic: "IPR Awareness Program"

By

Mr. CR Pradeep

Consultant and Project Coordinator

KSCST, Bengaluru

And

Ms. Bhavya KB

PIC, Consultant and Advocate

KSCST, Bengaluru.

Date: 19.01.2017

Time: 10.15 AM to 12.30 PM

Venue: Room No 305, Academic Block, SCE Bengaluru.

### Report on IPR Workshop by KSCST, IISc, Bangalore

Sapthagiri College of Engineering has organized workshop of Intellectual property right on 19<sup>th</sup> Jan 2017, at Room 305 Academic Block,

#### Resource Person

Mr.C R Pradeep, Co-ordinator, KSCST, IISc, Bangalore

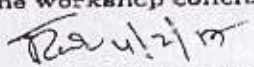
Ms.Bhavya, Co-ordinator, KSCST, IISc, Bangalore

The program started with welcoming the resource persons by Ms.Rakshitha and Ms.Madhuri Bhat Students of Bio-Technology Department, The Principal Dr.Aswathkumar M and Director Dr.Keshava Murthy presented flower bouquets to resource persons respectively.

Mr.C.R.Pradeep has explained about Intellectual Property Right and its importance in the first section from 10.30 AM to 11.45 AM.

After Tea Break Mr.Bhavya has explained about Patent Mechanism in India and procedure for applying patent.

The workshop concluded at 12.45 PM.

  
Ravi.T, Chief Librarian.

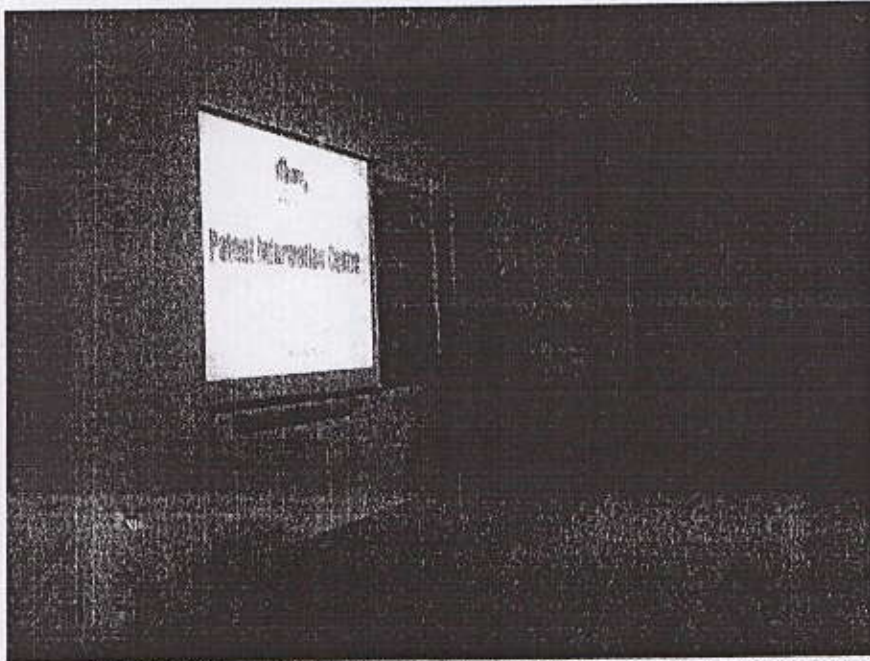
Dr.Rohit, Mr.Kiran.S., Mr.Ravikanth N, Mr.Frashanth kumar HP

  
Principal

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



Photo Gallery



*Kari*  
HOD EEE

*Kari*  
Principal

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Principal

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

Principal  
Sapthagiri College of Engineering  
14/5, Chikkasandra, Hesaraghatta Main Road  
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## Sapthagiri College of Engineering

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

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

Web: [www.sapthagiri.edu.in](http://www.sapthagiri.edu.in), Email: [principal@sapthagiri.edu.in](mailto:principal@sapthagiri.edu.in)

Phone: 080-28 372800/1/2 Fax: 080-28 372797

Date: 19/12 /2016

### Meeting Circular

A meeting is schedule on 20/12/2016 at 3:00 PM in Department of Biotechnology. This meeting will be a discussion regarding conduction of FDP.

HOD

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

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2. HOD of Chemistry

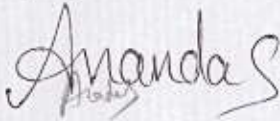
Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore- 560 057



**Date: 2-1-2017**

**Circular**

All the faculty of Department of Biotechnology and Department of Basic science are hereby informed to attend five days faculty development programme titled as **Waste Analysis and Management** from 3-1-2017 to 07-01-2017. All the Faculty register their names with Faculty Coordinator **Prof. Prashanth Kumar HP, Dept of BT.**



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

**Copy To,**

HOD of Physics

HOD of Chemistry



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**Bangaluru - 560 057**





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**Department of Biotechnology and Department of  
Basic Science**

**Organised Five days Faculty Development  
Programme**

**On**

***"Waste Analysis and Management"***

**3-1-2017 to 7-1-2017 (Tuesday-Saturday)**

**SCHEDULE**

| Time                  | 10:00AM-10:30PM  | 10:30AM-12:30PM  | 1:45-3:00PM  | 3:30-4:30PM |
|-----------------------|--|--|--|-------------|
| 3-1-2017<br>Tuesday   | FDP Inaugural Function<br>Key note address<br>Dr. Laxminarayan,<br>Pollution Control Board, Bangalore<br>Water analysis and Management |  | LAB SESSION 1<br>Introduction & TDS Analysis             |             |
| 4-1-2017<br>Wednesday | Storm water management<br>Dr. Bhrungesh,<br>Dept. Of Chemistry,<br>AIT,Bangalore   | Recycling of waste water<br>Dr. Gowri Shankar,<br>Head and Professor,<br>Dept. Of Biotechnology<br>SIT, Tumkur     | LAB SESSION 2<br>BOD, COD, Suspended solids              |             |
| 5-1-2017<br>Thrusday  | Effect of oil spill on Marine<br>Envircnment<br>Dr. M Sowmya<br>PDF IISc,<br>Bangalore   | Flushables and Collection<br>systems<br>Prof. Dasegowda<br>Professor,<br>Dept. Of Biotechnology<br>NHCE ,Bangalore | Waste water plant visit                                  |             |
| 6-1-2017<br>Friday    | Rain water harvesting<br>systems<br>Dr. B S Shankar<br>Professor & Head<br>SK T, Bangalore   | Watershed sustainability<br>Dr Shivaraju,<br>Assistant Professor<br>JSS academy, Mysore                            | LAB SESSION 3<br>Metal analysis using Titrimetric method |             |
| 7-1-2017<br>Saturday  | Va elictory Function<br>Dr. B Manju,<br>Assoc. Professor,<br>Dept Cf Chemistry<br>SKIT,Bangalore                                       |  |  |             |

**10:30AM-11:00AM- Tea Break, 12:30PM-1:30PM-Lunch Break, 3:30PM-3:45PM- Tea Break**

**Principal**

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

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



## Registration Form

### Faculty Development Programme

#### Waste Analysis and Management

**3-1-2017 to 07-01-2017**

**Tuesday-Saturday**

#### Participant Details

Name : \_\_\_\_\_

Dept : \_\_\_\_\_

College : \_\_\_\_\_

Mobile : \_\_\_\_\_

Email ID : \_\_\_\_\_

Signature of the Participant

#### PATRONS

Sri. G Dayanand  
Chairman, SCE

Sri. G D Manoj  
Executive Director, SCE

Dr. Ashwath Kumar M  
Principal, SCE

#### ORGANISERS

Dr. Ananda S  
HOD, BT

Dr. Jagadeesh Gowda  
HOD, Physics

Dr B S Krishna  
HOD, Chemistry

#### Co-ordinator

Prof. Prashanth Kumar H P  
AP Dept of BT

Principal

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

## SAPTHAGIRI COLLEGE OF ENGINEERING

Affiliated to VTU, Belagavi



DEPARTMENT OF BIO TECHNOLOGY  
AND  
DEPARTMENT OF BASIC SCIENCES

*Five Day Faculty  
Development Programme  
on*

## **WASTE ANALYSIS AND MANAGEMENT**

**3-1-2017 TO 07-01-2017**



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## **Report**

### **Waste Analysis and Management**

This Faculty Development Program (FDP) focused on the procedure to do Waste Analysis and Management. As a Faculty it is mandatory for one to know the basics and have a core idea in order to satisfy the purpose of Waste Analysis and Management. The FDP programme summarized the aspects relating to the methods for processing, treatment and disposal of waste materials and drawbacks in present waste analysis and management services. This FDP intended to orient participants towards developing their own ideas with due attention to every stage of Waste Analysis and Management.

While designing the structure of the programme it was kept in mind that there are going to be people from different background that's why emphasis was given on Waste Analysis and Management as a whole not pertaining to one single field so that maximum can be benefitted out of it.

The speakers Dr Gowri Shankar, Head and Professor, SIT, Tumkur, Prof Dasegowde, Professor, NHCE, Bangalore Dr Shivaraju, Assistant Professor and Academic Coordinator, Department of Water and Health, JSS Academy, Mysore explained what Waste Analysis and Management was all about? They connected things starting from the raw waste material to treatment and disposal of waste. They described how the process of Waste Analysis and Management takes place when it comes to daily human life. The second issue which they emphasised on was the collection of waste and disposal. According to them the two processes of waste collection are the primary and the secondary sources and one has to choose among the two in accordance to the question which has been framed.

They emphasised on the framing of the Waste Analysis and Management and held it to be the fundamental and initial step to do disposal of waste. One should focus on the suitability of the Waste Analysis and Management and its applicability to which type of processing, treatment and disposal of waste. They were made the sessions interactive and

  
**Principal**  
**Sapthagiri College of Engineering**  
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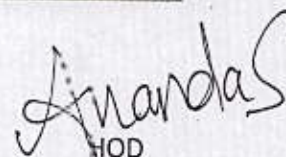
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## **Report** **Waste Analysis and Management**

based on various examples for better understanding of the Waste Analysis and Management. Last but not the least when the houses were open for questions the staff were keen to ask and with the same level of enthusiasm they were justifiably answered by professors.



  
Co-Ordinator

  
HOD

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

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







**ATTENDANCE LIST**

**Event Name: Waste Analysis and Management**

**Date: 3-1-2017 to 07-01-2017**

| Date: 5-1-2017 to 07-01-2017 |                     |       |     |       |     |       |     |       |     |       |     |
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| Sl. No                       | Faculty Name        | DAY-1 |     | DAY-2 |     | DAY-3 |     | DAY-4 |     | DAY-5 |     |
|                              |                     | MS    | AS  | MS    | AS  | MS    | AS  | MS    | AS  | MS    | AS  |
| 1                            | Rishath K Devedea   | B     | B   | B     | B   | B     | B   | B     | B   | B     | B   |
| 2                            | Ravikantha H        | N     | N   | N     | N   | N     | N   | N     | N   | N     | N   |
| 3                            | Anusreece A.M       | Q     | Q   | Q     | Q   | Q     | Q   | Q     | Q   | Q     | Q   |
| 4                            | Dr. chaitya lakshmi | Q     | Q   | Q     | Q   | Q     | Q   | Q     | Q   | Q     | Q   |
| 5                            | Roopa. K.P          | Q     | Q   | Q     | Q   | Q     | Q   | Q     | Q   | Q     | Q   |
| 6.                           | Dr. Krishna B.S     | BSK   | BSK | BSK   | BSK | BSK   | BSK | BSK   | BSK | BSK   | BSK |
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**Principal**  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
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**Head of the Department**  
Dept. of Bio-Technology  
Sapthagiri College of Engineering  
No. 57/1, Chikkasandra  
Hesaraghatta Main Road  
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**ATTENDANCE LIST**

Event Name: Waste Analysis and Management  
Date: 3-1-2017 to 07-01-2017

| Sl. No | Faculty Name              | DAY-1     |           | DAY-2     |           | DAY-3     |           | DAY-4     |           | DAY-5     |           |
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| 1      | Mrs. Shashikala B.S       | <u>MS</u> | <u>AS</u> | <u>MS</u> | <u>AS</u> | <u>MS</u> | <u>AS</u> | <u>MS</u> | <u>AS</u> | <u>MS</u> | <u>AS</u> |
| 2      | Gnanendra D.S             | <u>MS</u> | <u>AS</u> | <u>MS</u> | <u>AS</u> | <u>MS</u> | <u>AS</u> | <u>MS</u> | <u>AS</u> | <u>MS</u> | <u>AS</u> |
| 3      | Dr. Jagadeesha Gowda G.V. | <u>MS</u> | <u>AS</u> | <u>MS</u> | <u>AS</u> | <u>MS</u> | <u>AS</u> | <u>MS</u> | <u>AS</u> | <u>MS</u> | <u>AS</u> |
| 4      | Anupama B.G               | <u>MS</u> | <u>AS</u> | <u>MS</u> | <u>AS</u> | <u>MS</u> | <u>AS</u> | <u>MS</u> | <u>AS</u> | <u>MS</u> | <u>AS</u> |
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## SAPTHAGIRI COLLEGE OF ENGINEERING

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Department of Biotechnology  
and  
Department of Basic Sciences

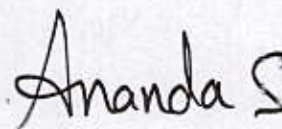
### Five Days Faculty Development Programme on

**"WASTE ANALYSIS AND MANAGEMENT"**


### CERTIFICATE OF PARTICIPATION

This is to certify that ✓ Dr/Mr/Ms/Mrs. Krishna B.S  
of Sapthagiri College of Engineering has attended Five days Faculty  
Development Program on **"WASTE ANALYSIS AND MANAGEMENT"** from  
**3-1-2017 to 07-01-2017** at Sapthagiri College of Engineering, Bengaluru - 560057.

  
Coordinator

  
Convener

  
Principal

  
Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore-560057





DEPARTMENT OF CIVIL ENGINEERING

## SAPTHAGIRI COLLEGE OF ENGINEERING

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

#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru- 560 057.

Phone: 080-28 37280/1/2

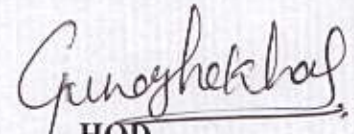
Fax: 080-28 372797

ACADEMIC YEAR 2016-2017

Date: 12/27/2017

### CIRCULAR

Faculties are hereby informed that the department is conducting a faculty development programme titled as 'SOIL STRUCTURE INTERACTION' for five days from 3<sup>RD</sup> Jan 2017 to 7<sup>TH</sup> Jan 2017. Interested faculties can register their names with Prof. Naveen Kumar S

  
HOD

Dept of civil

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



## SAPTHAGIRI COLLEGE OF ENGINEERING

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Phone: 080-28 372800/1/2

Fax: 080-28 372797

ACADEMIC YEAR 2016-2017

### Minutes of Meeting

A meeting of all the faculties was held on 01-07-2017 at HOD's office, Department of civil, Sapthagiri College of Engineering.

Prof. Naveen Kumar S, Associate Professor & Head chaired the meeting and greeted all faculty.

In the meeting the syllabus, schedule and budget of five days faculty development programme on SOIL STRUCTURE INTERACTION

### Detailed Syllabus & Schedule

#### DAY 1 - Introduction

Date: 03/1/2017

| Time                       | Topics   |
|----------------------------|--|
| 08:30 am<br>To<br>10:15 am | Introductory talk on fdp by the resource person  |
| Tea Break                  |  |
| 10:30 am<br>To<br>12:30 pm | Introduction to soil-foundation interaction problems. Soil behaviour, Foundation behaviour |
| Lunch Break                |  |
| 01:30 pm<br>To<br>03:00 pm | Interface behaviour, Scope of soil foundation interaction analysis                         |
| Tea Break                  |  |
| 03:15 pm<br>To<br>04:00 pm | soil response models, Winkler, Elastic continuum, Two parameter elastic models             |

#### DAY 2 - ELASTIC BEHAVIOUR

Date: 04/1/2017

| Time                       | Topics   |
|----------------------------|--|
| 08:30 am<br>To<br>10:15 am | Elastic-plastic behaviour, Time dependent behaviour  |
| 10:30 am<br>To<br>12:30 pm | Beam on Elastic Foundation- Soil Models: Infinite beam                                     |
| 01:30 pm<br>To<br>03:00 pm | Two-parameters models  |
| 03:15 pm<br>To<br>04:00 pm | Isotropic elastic half space model, Analysis of beams of finite length, combined footings. |

DAY 3 – Basic concepts of continuum

  
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Bengaluru - 560 057



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**ACADEMIC YEAR 2016-2017**

**Date: 05/1/2017**

| Time                       | Topics  |
|----------------------------|---|
| 08:30 am<br>To<br>10:15 am | Plates on Elastic Continuum:Thin and thick rafts                                    |
| Tea Break                  |   |
| 10:30 am<br>To<br>12:30 pm | Analysis of finite plates, Numerical analysis of finite plates.                     |
| Lunch Break                |   |
| 01:30 pm<br>To<br>03:00 pm | Analysis of Axially and Laterally Loaded Piles and Pile Groups:                     |
| Tea Break                  |   |
| 03:15 pm<br>To<br>04:15 pm | Theoretical solutions for settlement and load distributions, Analysis of pile group |

**DAY 4 – Elastic analysis**

**Date: 06/01/2017**

| Time                       | Topics  |
|----------------------------|---|
| 08:30 am<br>To<br>10:15 am | Elastic analysis of single pile   |
| Tea Break                  |   |
| 10:30 am<br>To<br>12:30 pm | Interaction analysis, Load distribution in groups with rigid cap,               |
| Lunch Break                |   |
| 01:30 pm<br>To<br>03:00 pm | Load deflection prediction for laterally loaded piles                           |
| Tea Break                  |   |
| 03:15 pm<br>To<br>04:15 pm | Subgrade reaction and elastic analysis, Interaction analysis, Pile-raft system, |

**DAY 4 – FOUNDATION SPECIFICATION**

**Date: 07/01/2017**

| Time                       | Topics   |
|----------------------------|--|
| 08:30 am<br>To<br>10:15 am | Ground-Foundation-Structure Interaction              |
| Tea Break                  |  |
| 10:30 am<br>To<br>12:30 pm | Effect of structure on ground-foundation interaction |

  
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DEPARTMENT OF CIVIL ENGINEERING

## SAPTHAGIRI COLLEGE OF ENGINEERING


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**ACADEMIC YEAR 2016-2017**

|                            |                           |
|----------------------------|---------------------------|
| 12:30 pm                   |                           |
| <b>Lunch Break</b>         |                           |
| 01:30 pm<br>To<br>03:00 pm | Static and dynamic loads. |
| <b>Tea Break</b>           |                           |
| 03:15 pm<br>To<br>04:15 pm | Valedictory function      |

  
Principal  
Sapthagiri College of Engineering  
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Bengaluru - 560 057



## About the College

Sapthagiri Group of Institutions is the creation of Sri Srinivasa Educational & Charitable trust, Bengaluru. Sapthagiri College of Engineering is the brainchild of honorable Sri Late Giriappa, Founder Chairman and Sri. G. Dayanand, Chairman of Sri Srinivasa Educational & Charitable trust. Sri G.D. Manoj, is the Executive Director of SCE. SCE began its glorious journey in the year 2001. It is approved and accredited by AICTE, New Delhi and is affiliated to VTU Belagavi, Karnataka. The campus of Sapthagiri College of Engineering is spread across 6.5 acres of lush green land with beautiful landscape. The area enjoys pleasant atmosphere throughout the year.



## Vision

To be a best institution imparting quality engineering education to deal with community needs through learning and performance.

## Mission

To implement path breaking student centric education methods. - To augment talent, nurture teamwork to transform to develop individual as responsible citizen. -To educate the students and faculties about entrepreneurship to meet vibrant requirements of the society. -Strengthen Industry-Institute Interaction for knowledge sharing.

## Chief Patrons

**Sri. G. Dayanand,**

Chairman, Sri.Srinivasa Educational & Charitable Trust,  
Sapthagiri Group of Institutions, Bengaluru

**Sri. G.D. Balaji,**

Executive Director, Sri. Srinivasa Educational  
& Charitable Trust, Sapthagiri Group of Institutions

**Sri. G.D. Manoj,**

Executive Director, Sri. Srinivasa Educational  
& Charitable T, Sapthagiri Group of Institutions

## Patrons

**Dr.K N Ravi**

Principal, SCE, Bengaluru

**Convener**

Dr.T K Gunashekar

Prof.& HOD,Dept. of CV, SCE, Bengaluru

**Coordinator**

Mr.Naveen Kumar S

Professor, SCE, Bengaluru

## Faculty Development Programme

On

## Soil Structure Interaction

On

03<sup>rd</sup> -07<sup>th</sup> Jan 2017

Organized by

## Sapthagiri College of Engineering

Department of Civil Engineering

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

Phone: 080-28372800/01/02/03



## About the Course:

- Overview of Soil structure interaction
- Soil interaction.
- Soil foundation interaction.
- Scope of soil foundation interaction analysis..
- Elastic – plastic behaviour, time dependent behaviour.
- Two parameters model
- Analysis of finite plates, axially loaded and laterally loaded pile
- Interaction analysis , load deflection , sub grade reaction
- Ground foundation structure interaction

  
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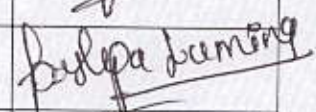


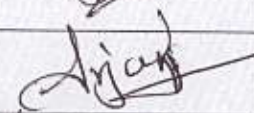
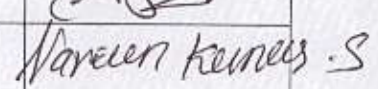
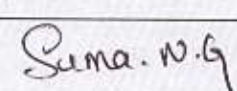
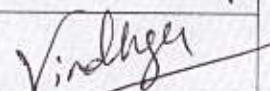
**ACADEMIC YEAR 2016-2017**

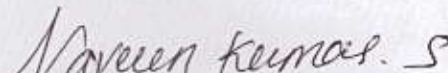
**FACULTY DEVELOPMENT PROGRAMME**

**ON**

**Soil structure interaction**

**Faculty Attendance**

| Sl No. | Faculty Name           | Designation         | Signature   |
|--------|------------------------|---------------------|---|
| 1      | Er. T K Gunashekar     | HOD                 |    |
| 2      | Prof. Pusapa Lumina    | Assistant professor |    |
| 3      | Prof. Vinchya R G      | Assistant professor |    |
| 4      | Prof. Krupa T L        | Assistant professor |    |
| 5      | Prof. Arjun C Haktoor  | Assistant professor |   |
| 6      | Prof. Naveen Kumar S   | Assistant professor |  |
| 7      | Prof. Suma.N.G         | Assistant professor |  |
| 8      | Prof. Vindhya Bhagavan | Assistant professor |  |

  
Signature of coordinator

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

  
Signature of HOD



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ACADEMIC YEAR 2016-2017

**REPORT ON SOIL STRUCTURE INTERACTION**

Aiming to provide an intense training on soil structure interaction for our civil engineering faculties, Sapthagiri College of Engineering held during from 3<sup>RD</sup> Jan 2017 to 7<sup>TH</sup> Jan 2017. After self introduction of MOC, Mr. Naveen Kumar S (Assistant Professor, Department of Civil Engineering) delivered the welcome address followed by the Pleasant Prayer song by our 6th sem student Ms. Revathi. Further Dr. T K Gunashekar (Head Of the Department, Department of Civil Engineering) explained us about the importance of "soil structure interaction" faculties. Further, the gathered lighted the lamp and seeked the blessing of Dr. Sir. M. Visweswaraya.

This programme focused on the different soil structure interaction models for shallow foundation under various loading condition and surgrade characteristics. The application of foundations models in real life problems also been discussed. field engineers and as well as the teaching staff got benefitted from this programme as the design of foundations under critical conditions considering soil structure interaction. Overall the faculties felt that the session was informative & gain knowledge about of structure interaction with soil and its behaviour.



*(Signature)*

HOD

*(Signature)*

Principal  
Sapthagiri College of Engineering  
14/5, Chikkasandra, Hesaraghatta Main Road  
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*(Signature)*  
PRINCIPAL

Principal  
Sapthagiri College of Engineering  
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Bengaluru - 560 057



# Sapthagiri College of Engineering

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#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru- 560 057.



## Certificate

*This is to Certify that Mr./Mrs. Vindhya. R. G of has participated and successfully completed Five days Workshop on "Soil Structure Interaction" from 03<sup>RD</sup> January to 07<sup>th</sup> January 2017 organized by the Civil Engineering Department,*

**Sapthagiri College of Engineering.**

*[Signature]*  
HOD  
Dept. of CIVIL

*[Signature]*  
Principal



**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING  
SAPTHAGIRI COLLEGE OF ENGINEERING**

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

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

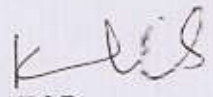
**ACADEMIC YEAR 2016-2017**

Date: 31/12/2016

**CIRCULAR**

All the Faculties are hereby informed about Department is conducting a Five days Faculty Development Programme titled as "**Mathematics for Machine Learning**" from 3rd Jan 2017 to 7<sup>th</sup> Jan 2017. Interested faculties can register their names with Prof Kavitha G, Assistant Professor and Prof Kavya, Assistant Professor.

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

  
HOD  
Department of Computer Science Engineering  
Sapthagiri College of Engineering  
Bangalore-57



**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**  
**SAPTHAGIRI COLLEGE OF ENGINEERING**  
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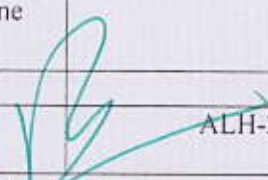
14/5, Hesaraghatta Main Road BENGALURU-560057

**FIVE days FDP on “Mathematics for Machine Learning” on**

**JAN 3rd -7th, 2017**

Programme schedule

| DATE/DAY                | TIME                | EVENT, SPEAKER & TOPIC COVERED   | VENUE                   |
|-------------------------|---------------------|--|-------------------------|
| 03/01/2017<br>TUESDAY   | 9:00 AM-10:00 AM    | Registration   | Academic Block Entrance |
|                         | 10:00 AM -10:40 am  | Inaugural Function   | ALH-206                 |
|                         | 10:40 am -11 :00 am | Tea Break  |                         |
|                         | 11:00 am -1:00 pm   | <b>Lecture-1: Prof. A Latha</b><br>• Introduction to Machine learning                                  | ALH-206                 |
|                         | 1:00 pm- 2:00pm     | Lunch Break  |                         |
|                         | 2:00pm -4:00 pm     | <b>Lecture-2: Prof. Ragini Krishna</b><br>• Data preparation process                                   | ALH-206                 |
| 04/01/2017<br>WEDNESDAY | 9:00 AM-10:40 AM    | <b>Lecture-3: Prof. Kamalakshi Naganna</b><br>• Matplotlib.  | ALH-206                 |
|                         | 10:40 am -11 :00 am | Tea Break  |                         |
|                         | 11:00 am -1:00 pm   | <b>Lecture-4: Prof. A Latha</b><br>• Matplotlib - Subplots() Function                                  | ALH-206                 |
|                         | 1:00 pm- 2:00pm     | Lunch Break  |                         |
|                         | 2:00pm -4:00 pm     | <b>Lecture-5: Prof. Suriya Prakash</b><br>Hands on Session   | CPL 201/1               |
| 05/01/2017<br>THURSDAY  | 9:00 AM-10:40 AM    | <b>Lecture-6: Dr. Kamalakshi Naganna</b><br>Python Basics  | ALH-206                 |
|                         | 10:40 am -11 :00 am | Tea Break  |                         |
|                         | 11:00 am -1:00 pm   | <b>Lecture-7: Prof. Kamalakshi Naganna</b><br>• Python Basics  | ALH-206                 |
|                         | 1:00 pm- 2:00pm     | Lunch Break  |                         |
|                         | 2:00pm -4:00 pm     | <b>Lecture-8: Prof. Suriya Prakash</b><br>Hands on Session   | CPL 201/1               |
| 06/01/2017<br>FRIDAY    | 9:00 AM-10:40 AM    | <b>Lecture-9: Prof. Veena K R</b><br>Mathematics for Machine Learning                                  | ALH-206                 |
|                         | 10:40 am -11 :00 am | Tea Break  |                         |
|                         | 11:00 am -1:00 pm   | <b>Lecture-7: Prof. Kamalakshi Naganna</b><br>• Artificial Neural Networks                             | ALH-206                 |
|                         | 1:00 pm- 2:00pm     | Lunch Break  |                         |
|                         | 2:00pm -4:00 pm     | <b>Lecture-6: Prof. Suriya Prakash</b><br>Hands on Session   | CPL 201/1               |
| 07/01/2017<br>SATURDAY  | 9:00 AM-10:40 AM    | <b>Lecture-6: Prof. Ragini Krishna</b><br>Artificial Neural Networks                                   | ALH-206                 |
|                         | 10:40 am -11 :00 am | Tea Break  |                         |
|                         | 11:00 am -1:00 pm   | <b>Lecture-7: Prof. Veena K R</b><br>• Clustering<br>• Probability and Statistics for Machine Learning | ALH-206                 |
|                         | 1:00 pm- 2:00pm     | Lunch Break  |                         |
|                         | 2:00pm -4:00 pm     | <b>Certificate Distribution</b>  | ALH-206                 |

  
**Principal**  
Sapthagiri College of Engineering  
Chikkasandra, Hassan



## Registration Details

Name: \_\_\_\_\_

Designation: \_\_\_\_\_

Qualification: \_\_\_\_\_

Experience (In Years) Teaching: \_\_\_\_\_

Industry: \_\_\_\_\_

Address for communication: \_\_\_\_\_

Phone Office: \_\_\_\_\_

Mobile: \_\_\_\_\_

E-mail: \_\_\_\_\_

### Chief Patrons:

Sri Dayanand G.  
Chairman  
Sri Srinivasa Educational & Charitable Trust

Sri G D Manoj  
Executive Director  
Sri Srinivasa Educational & Charitable Trust

### Patrons:

Dr. Srinivasan N. Director, SCE  
Dr. M. Aswatha Kumar Principal, SCE

### Organizing Chair:

Prof. Kamalakshi Naganna  
Professor & Head

### Co-ordinator:

Prof. Kavitha G  
Assistant Professor

Prof. Kavya N L  
Assistant Professor



**SAPTHAGIRI COLLEGE OF  
ENGINEERING**  
*Five days Faculty Development  
Programme on*

**“Mathematics for  
Machine Learning”**

3<sup>rd</sup> Jan to 7<sup>th</sup> Jan 2017



### Organized by:

Department of Computer Science & Engineering  
**SAPTHAGIRI COLLEGE OF ENGINEERING**

Recognized by AICTE, New Delhi & Affiliated to VTU, Belgaum

#14/5, Chikkasandra, Hesarghatta Main Road  
Bangaluru-560057. Phone No. 080-28372801/221  
Fax: 28372797. [www.sapthagiri.edu.in](http://www.sapthagiri.edu.in)

*Signature of Participant*

*Signature of the Head of the  
Organization/Department/Institute with Seal*

**Principal**

**Sapthagiri College of Engineering**  
Chikkasandra, Hesarghatta Road,  
Bangalore- 560 057



# SAPTHAGIRI COLLEGE OF ENGINEERING

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru- 560 057

## FDP on "MATHEMATICS FOR MACHINE LEARNING"

from 03/01/2017 to 07/01/2017

| SL. No. | Name                  | Day 1<br>03/01/2017 |    | Day 2<br>04/01/2017 |    | Day 3<br>05/01/2017 |    | Day 4<br>06/01/2017 |    | Day 5<br>07/01/2017 |    |
|---------|-----------------------|---------------------|----|---------------------|----|---------------------|----|---------------------|----|---------------------|----|
|         |                       | FN                  | AN | FN                  | AN | FN                  | AN | FN                  | AN | FN                  | AN |
| 1       | Dr.C.M.Prashanth      |                     |    |                     |    |                     |    |                     |    |                     |    |
| 2       | Mrs.KamalakshiNaganna |                     |    |                     |    |                     |    |                     |    |                     |    |
| 3       | Mr. Rajeev Bilagi     |                     |    |                     |    |                     |    |                     |    |                     |    |
| 5       | Mrs.Chaithra          |                     |    |                     |    |                     |    |                     |    |                     |    |
| 6       | Mrs.Ancy Thomas       |                     |    |                     |    |                     |    |                     |    |                     |    |
| 7       | Mrs.Ragini Krishna    |                     |    |                     |    |                     | AB |                     |    |                     |    |
| 8       | Mrs.Latha.A           |                     |    |                     |    |                     |    |                     |    |                     |    |
| 9       | Mrs.Roopabhanakar     |                     |    |                     |    |                     |    |                     |    |                     |    |
| 10      | Mrs.Poorinima.G J     |                     |    |                     |    |                     |    |                     |    |                     |    |
| 11      | Mrs.Sushmitha.J       |                     |    |                     |    |                     |    |                     |    |                     |    |
| 12      | Mrs.Madhushree        |                     |    |                     |    |                     |    |                     |    |                     |    |
| 13      | Ms.Veena K R          |                     |    |                     |    |                     |    |                     |    |                     |    |
| 14      | Mrs AnuradhaBadage    |                     |    |                     |    |                     |    |                     |    |                     |    |

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|    |                     |  |  |  |  |  |  |  |  |  |  |
|----|---------------------|--|--|--|--|--|--|--|--|--|--|
| 15 | Mrs Kavitha G       |  |  |  |  |  |  |  |  |  |  |
| 16 | Mr.Anoop N Prasad   |  |  |  |  |  |  |  |  |  |  |
| 17 | Mr.Chethan M        |  |  |  |  |  |  |  |  |  |  |
| 18 | Mrs Akshatha B R    |  |  |  |  |  |  |  |  |  |  |
| 19 | Mrs Akshatha G C    |  |  |  |  |  |  |  |  |  |  |
| 20 | Mr.Suriya Prakash J |  |  |  |  |  |  |  |  |  |  |
| 21 | Mrs Shruthi N       |  |  |  |  |  |  |  |  |  |  |
| 22 | Mrs Vidya J         |  |  |  |  |  |  |  |  |  |  |
| 23 | Ms.Kavya N L        |  |  |  |  |  |  |  |  |  |  |

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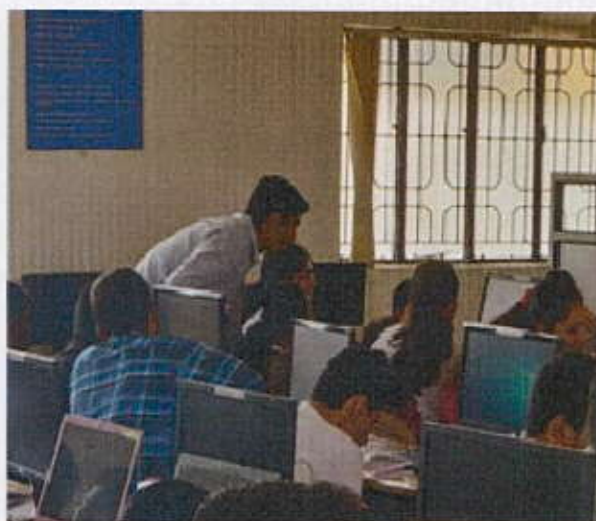
## REPORT ON

Five days FDP on "FIVE days FDP on "Mathematics for Machine learning" on 3<sup>rd</sup> Jan 2017 to 7<sup>th</sup> Jan 2017

The FDP session started on 3<sup>rd</sup> Jan 2017, in the presence of HOD, CSE Department, Dr Kamalakshi Naganna.

The overall FDP was about Machine learning and AI concepts includes **Mathematical** Principles like Calculus, Linear Algebra, Probability, Statistics, and Optimization.

The Technical session was very helpful in enhancing the technical knowledge amongst the faculty members. Overall the faculties felt that the session was very informative and gain knowledge about the Machine Learning and its Applications.



Glimpse of Hands on Sessions

  
Convener

  
Chairman  
Sapthagiri College of Engineering, Professor & Head of the Department  
Chikkasandra, Hesaraghatta Road, Computer Science Engineering  
Bangalore-560 057 Sapthagiri College of Engineering  
Bangalore-57



# SAPTHAGIRI COLLEGE OF ENGINEERING

#14/5, HESARAGHATTA MAIN ROAD, BENGALURU - 560057

## Certificate of Participation

This is to certify that

Mr./Ms. Prof. Suriya Prakash  
Successfully participated in the Faculty Development Program on  
"Mathematics for Machine Learning from 03/01/2017 to 07/01/2017  
organized by Department of Computer Science & Engineering, Sapthagiri  
College of Engineering, and Bengaluru-560057.

*[Signature]*

HOD

Professor & Head of the Department  
Computer Science Engineering  
Sapthagiri College of Engineering  
Bengaluru

*[Signature]*  
PRINCIPAL

Principal

Sapthagiri College of Engineering  
Chiklasandra, Hesarghatta Main Road  
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Phone: 080-28 372800/1/2

Fax: 080-28 372797

ACADEMIC YEAR 2016-2017

Date: 31/12/2016


### CIRCULAR

Department of Electronics and Communication Engineering is conducting a five days faculty development programme on **New concepts in network and cyber security** for the technical developments of the faculty from 3<sup>rd</sup> Jan 2017 to 7<sup>th</sup> Jan 2017. All the faculty can register their names with *Prof Varshini K and Prof. Prathiba P*.

  
HOD

Department of ECE

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

  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
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ACADEMIC YEAR 2016-2017

### Minutes of Meeting

A meeting of all the faculty was held on 16/01/2016 at HOD's office, Department of ECE, Sapthagiri College of Engineering.

#### Agenda:

- In the meeting the syllabus, schedule of five days faculty development programme on New concepts in network and cyber security to faculty members was discussed and approved by the HOD.

Programme schedule:

#### Detailed Syllabus & Schedule

##### DAY 1-Network and cyber security basics

Date: 03/01/2017

| Time                       | Topics  |
|----------------------------|---|
| 08:30 am<br>To<br>10:15 am | Introduction to Network and Cyber Attacks and Algorithms. |
| Tea Break                  |   |
| 10:30 am<br>To<br>12:30 pm | Protocols and Concepts related to Data Monitoring.        |
| Lunch Break                |   |
| 01:30 pm<br>To<br>03:00 pm | VPN Technology and Cryptography.                          |
| Tea Break                  |   |
| 03:15 pm<br>To<br>04:00 pm | Demo of Relevant Tools.                                   |

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**ACADEMIC YEAR 2016-2017**

### DAY 2-Web Security

**Date: 04/01/2017**

| Time                       | Topics   |
|----------------------------|--|
| 08:30 am<br>To<br>10:15 am | Overview of concrete threats against web applications. |
| 10:30 am<br>To<br>12:30 pm | Insights into common attacks and countermeasures.      |
| 01:30 pm<br>To<br>03:00 pm | Current best practices for secure web applications.    |
| 03:15 pm<br>To<br>04:00 pm | Critically audit web applications for security flaws.  |

### DAY 3 –Electronic mail Security

**Date: 05/01/2017**

| Time                       | Topics                             |
|----------------------------|------------------------------------|
| 08:30 am<br>To<br>10:15 am | Introduction about Email Security. |
| <b>Tea Break</b>           |                                    |
| 10:30 am<br>To<br>12:30 pm | About Email Security Policies.     |
| <b>Lunch Break</b>         |                                    |
| 01:30 pm<br>To<br>03:00 pm | Email Security Best Practices.     |
| <b>Tea Break</b>           |                                    |
| 03:15 pm                   |                                    |

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### ACADEMIC YEAR 2016-2017

|                |                       |
|----------------|-----------------------|
| To<br>04:15 pm | Email Security Tools. |
|----------------|-----------------------|

#### DAY-4-Digital Signatures

Date: 06/01/2017

| Time                       | Topics                                      |
|----------------------------|---|
| 08:30 am<br>To<br>10:15 am | What is Digital Signature and how it works? |
| Tea Break                  |   |
| 10:30 am<br>To<br>12:30 pm | Applications of Digital Signature           |
| Lunch Break                |   |
| 01:30 pm<br>To<br>03:00 pm | Digital Signature Algorithm                 |
| Tea Break                  |   |
| 03:15 pm<br>To<br>04:15 pm | Creation of Digital Structures              |

#### DAY 5 -Cyber crimes and laws

Date: 07/01/2017

| Time                       | Topics  |
|----------------------------|---|
| 08:30 am<br>To<br>10:15 am | A brief study on Cyber crimes and Cyber laws.   |
| Tea Break                  |   |
| 10:30 am<br>To<br>12:30 pm | Cyber crime classification and Characteristics. |
| Lunch Break                |   |
| 01:30 pm<br>To<br>03:00 pm | Current issues in Cyber laws.                   |
| Tea Break                  |   |

Principal

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**ACADEMIC YEAR 2016-2017**

|                            |                            |
|----------------------------|----------------------------|
| 03:15 pm<br>To<br>04:00 pm | Challenges of Cyber Crime. |
|----------------------------|----------------------------|

The following members were present in the meeting and the syllabus and lesson plan for the faculty development programme has been decided.

| Sl No. | Faculty Name             | Designation         | Signature |
|--------|--------------------------|---------------------|-----------|
| 1      | Prof. Agalya P.          | Associate Professor |           |
| 2      | Prof. Shobha S.          | Associate Professor |           |
| 3      | Prof. Ravishankara M. N. | Associate Professor |           |
| 4      | Prof. Shobha I Hugar     | Assistant Professor |           |
| 5      | Prof. Suriya Prakash     | Guest Speaker       |           |

HOD

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

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

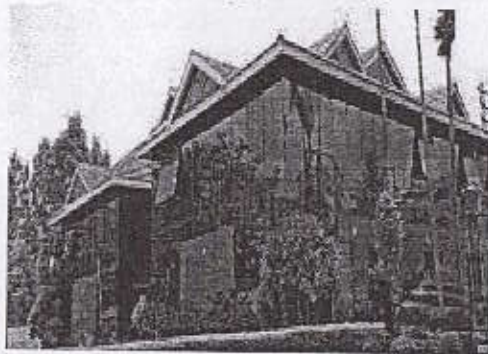




**5 Days FDP  
on**

**"New Concepts in Network and  
Cyber Security"**  
3<sup>rd</sup> January 2017 to 7<sup>th</sup> January 2017

**Organized by  
Department of  
Electronics & Communication  
Engineering**



**Sapthagiri College of  
Engineering**

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

Phone: 080-28372800/01/02/03

Principal

Sapthagiri College of Engineering  
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### About the College

Sapthagiri Group of Institutions is the creation of Sri Srinivasa Educational & Charitable trust, Bengaluru. Sapthagiri College of Engineering is the brainchild of honorable Sri Giriappa, Founder Chairman and Sri. G. Dayanand, Chairman of Sri Srinivasa Educational & Charitable trust. Sri G.D. Manoj is the Executive Director of SCE. SCE began its glorious journey in the year 2001. It is approved and accredited by AICTE, New Delhi and is affiliated to VTU Belagavi, Karanataka. The campus of Sapthagiri College of Engineering is spread across 6.5 acres of lush green land with beautiful landscape. The area enjoys pleasant atmosphere throughout the year. The college has secured 22 University ranks and 4 Gold medals.

### Vision

To create and maintain an enabling learning environment for the students to transform them as thorough professionals to meet diverse professional demands of global environments.

### Mission

To provide quality education to the students to pursue courses in different engineering disciplines and to transform their professional dreams into reality and to offer competent budding professionals to the society.

### About the Department:

The Department of Electronics and Communication Engineering (ECE), one of the evergreen and core departments in the Institution was established in the year 2001, is affiliated to Visvesvaraya Technological University (VTU), Belagavi and approved by All India Council for Technical Education (AICTE). The Department offers full-time UG programme in Electronics & Communication Engineering with an intake of 120, PG Programme in VLSI Design and Embedded systems with an intake of 24 and has research center offering Ph.D/M.Sc (Engg.) in Electronics and Communication Engineering recognized by VTU, Belagavi.

### About the Faculty Development Programme:

Its objectives are

- To enhance the Professional skill in the faculty in the field of materials processing.

### Topics Covered

- Overview of Cyber security,
- Quantum Cryptography and Quantum Key Distribution followed by Attack Scenarios
- Security Aspects in Mobile Networks followed by Email tracing,
- Expert System integrated Cyber security Systems
- Predictive Cyber Defense with Artificial Intelligence and Machine Learning

### Resource Persons:

#### **Prof. Suriya Prakash**

Asst. professor

Department of CSE,

Sapthagiri College of Engineering, Bengaluru.

Qualification B. Tech. MTech. (PhD)

#### **Prof. Sudha M S**

Asst. Professor

Department of ECE

Sapthagiri College of Engineering, Bengaluru.

Qualification B. Tech. MTech. ( PhD)

### Address for Registration /Communication

**Prof.Prathiba P : 9448914448**

Sapthagiri College of Engineering  
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Fax: 080-28 372757

**ACADEMIC YEAR 2016-2017**

### 2016-17(EVEN)

**List of participants and Attendance FDP on "New concepts in network and cyber security"**  
**From 03<sup>rd</sup> Jan 2017 to 07<sup>th</sup> Jan 2017**

| Sl. No. | Name of the Faculty  | 03/01/17 |    | 04/01/17 |    | 05/01/17 |    | 06/01/17 |    | 07/01/17 |    |
|---------|----------------------|----------|----|----------|----|----------|----|----------|----|----------|----|
|         |                      | FN       | AN | FN       | AN | FN       | AN | FN       | AN | FN       | AN |
| 1       | Agalya               | 2        | 2  | 2        | 2  | 2        | 2  | 2        | 2  | 2        | 2  |
| 2       | S. Shobha            | 2        | 2  | 2        | 2  | 2        | 2  | 2        | 2  | 2        | 2  |
| 3       | Shilpa.V             | 2        | 2  | 2        | 2  | 2        | 2  | 2        | 2  | 2        | 2  |
| 4       | Suma.V Shetty        | 2        | 2  | 2        | 2  | 2        | 2  | 2        | 2  | 2        | 2  |
| 5       | Chaitra.P            | 2        | 2  | 2        | 2  | 2        | 2  | 2        | 2  | 2        | 2  |
| 6       | Suma.C               | 2        | 2  | 2        | 2  | 2        | 2  | 2        | 2  | 2        | 2  |
| 7       | Pavan.E.S            | 2        | 2  | 2        | 2  | 2        | 2  | 2        | 2  | 2        | 2  |
| 8       | Shobha               | 2        | 2  | 2        | 2  | 2        | 2  | 2        | 2  | 2        | 2  |
| 9       | Prathibha.P          | 2        | 2  | 2        | 2  | 2        | 2  | 2        | 2  | 2        | 2  |
| 10      | Preethi.T.S          | 2        | 2  | 2        | 2  | 2        | 2  | 2        | 2  | 2        | 2  |
| 11      | Naveen.H             | 2        | 2  | 2        | 2  | 2        | 2  | 2        | 2  | 2        | 2  |
| 12      | Varshini.K           | 2        | 2  | 2        | 2  | 2        | 2  | 2        | 2  | 2        | 2  |
| 13      | Rashmi.C             | 2        | 2  | 2        | 2  | 2        | 2  | 2        | 2  | 2        | 2  |
| 14      | Anitha.murthy        | 2        | 2  | 2        | 2  | 2        | 2  | 2        | 2  | 2        | 2  |
| 15      | Shwetha.co           | 2        | 2  | 2        | 2  | 2        | 2  | 2        | 2  | 2        | 2  |
| 16      | Jayadev.D.B          | 2        | 2  | 2        | 2  | 2        | 2  | 2        | 2  | 2        | 2  |
| 17      | Visalakshmi.K.M      | 2        | 2  | 2        | 2  | 2        | 2  | 2        | 2  | 2        | 2  |
| 18      | Vani.A               | 2        | 2  | 2        | 2  | 2        | 2  | 2        | 2  | 2        | 2  |
| 19      | Ravi Shankar.N.V     | 2        | 2  | 2        | 2  | 2        | 2  | 2        | 2  | 2        | 2  |
| 20      | Karthik.N.C          | 2        | 2  | 2        | 2  | 2        | 2  | 2        | 2  | 2        | 2  |
| 21      | Vani.V               | 2        | 2  | 2        | 2  | 2        | 2  | 2        | 2  | 2        | 2  |
| 22      | Sasmita Mahapatra    | 2        | 2  | 2        | 2  | 2        | 2  | 2        | 2  | 2        | 2  |
| 23      | <del>Madhavi.H</del> |          |    |          |    |          |    |          |    |          |    |
| 24      | Sandhya Rani.H.H     | 2        | 2  | 2        | 2  | 2        | 2  | 2        | 2  | 2        | 2  |





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### Department of Electronics and Communication

#### "FDP Report on "New Concepts in Network and Cyber Security"

Date: 03.01.2017 to 07.01.2017

Time: 9 AM to 4 PM

Venue: ALH309 ,VLSI Lab, Academic block, SCE

#### RESOURCE PERSONS PROFILE:

1. Name: Prof. Suriya Prakash

Current status: Asst. professor

Department of CSE,

Sapthagiri College of Engineering, Bengaluru.

Qualification B. Tech. MTech. (PhD)

**Professional Experience:** Prof. Surya prakash Has 8 years of Teaching experience in various subjects. Currently working as Assistant professor in the department of computer science and Engineering, Sapthagiri college of Engineering, Bengaluru. He Has published papers in various National and International Journals

2. Name: Prof. Sudha M S

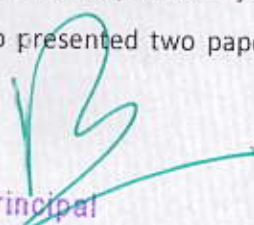
Current Status: Asst. Professor

Department of ECE

Sapthagiri College of Engineering, Bengaluru.

Qualification B. Tech. MTech. ( PhD)

**Professional Experience:** She has 22 years of teaching experience. She has published 2 Scopus index journal and UGC approved journal in Digital Image Watermarking implementation. Also presented two papers in IEEE conference and IRF international conference

  
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### Department of Electronics and Communication

#### Summary Report:

Faculty development programme was conducted on New Concepts in Network and Cyber Security by the department of Electronics and Communication from 3<sup>rd</sup> Jan 2017 to 7<sup>th</sup> Jan 2017. The FDP programme was inaugurated by the principal. The first day session started with Overview of Cybersecurity, its security architectures, and security implications and adoption of evolving technology followed NMAP: scanning smaller to larger networks, scanning servers, running existing scripts, privilege escalation and RDP.

The Second day session started by resource person with Quantum Cryptography and Quantum Key Distribution followed by Attack Scenarios: Server-side attacks, client-side attacks, authentication-based attacks, session management and hijacking.

The Third day session started with Security Aspects in Mobile Networks followed by Email tracing, my last search, USB Device, Root-me challenges, wasitviewed, Burpsuite Scanner, Zenmap, Acunetix, SQL injection, Malicious SQL statements, Smart Script, SQL Injection (SQLI) Attack. The fourth day session started with Expert System integrated Cybersecurity Systems.

On the last day of the FDP the session started with Predictive Cyber Defense with Artificial Intelligence and Machine Learning followed by question and answers where faculties interacted on questions about implementation of projects on machine learning in the campus. They also discussed about future in the domain. The FDP was useful and well appreciated by faculties. The session was concluded with vote of thanks and distribution of certificates to the participants.

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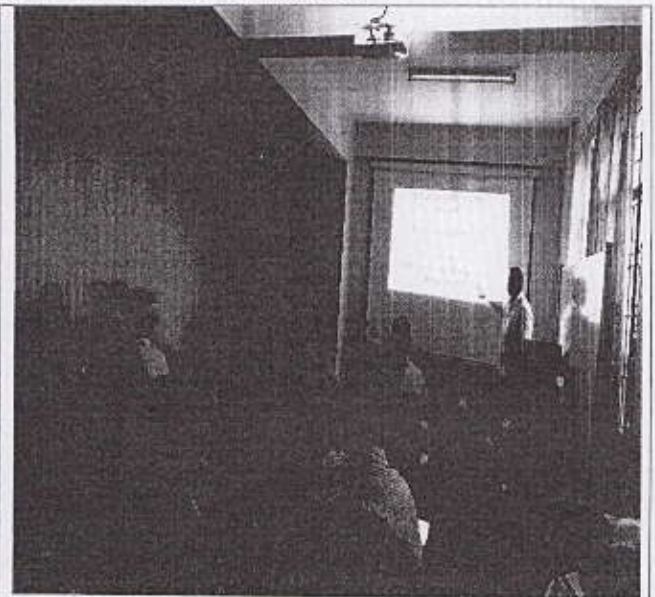
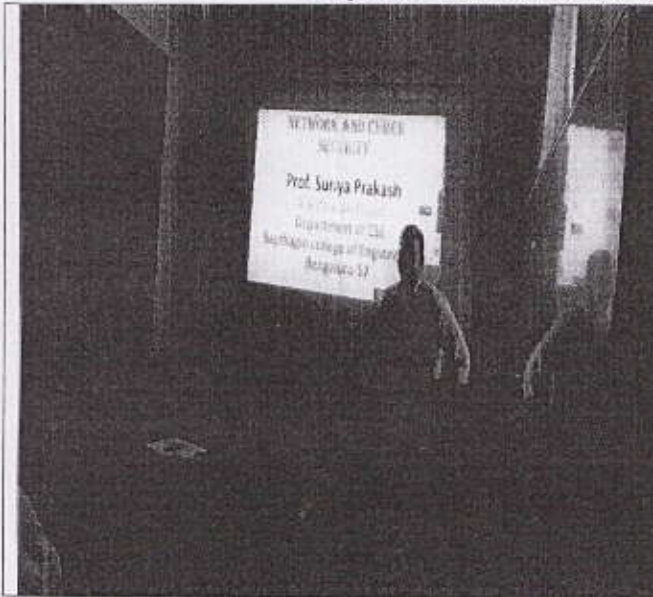
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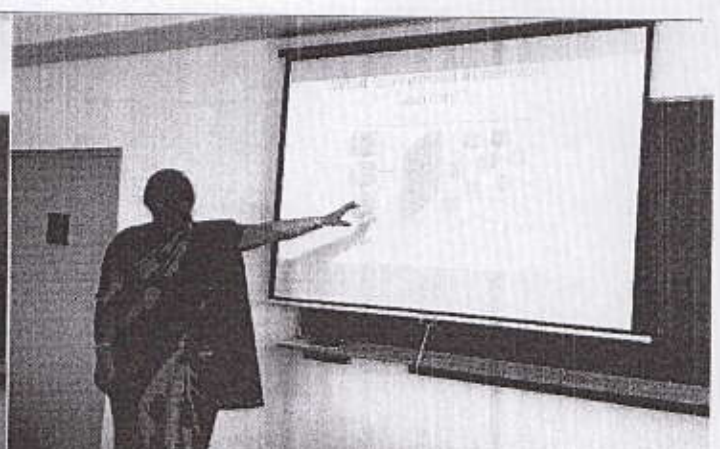
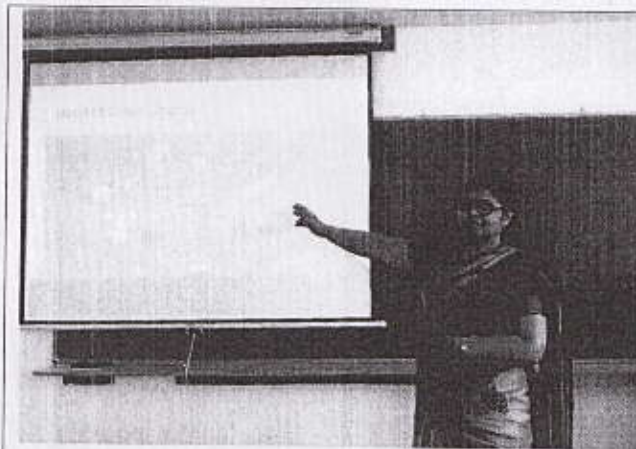
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### Department of Electronics and Communication



Prof.Suriya Prakash delivering speech



Prof.Sudha M S delivering speech

Principal

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

Chairman  
Academic committee

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



# Sapthagiri College of Engineering

Affiliated to Visvesvaraya Technological University Belagavi & Approved by AICTE, New Delhi.)  
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru- 560 057.

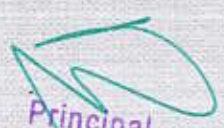


## Certificate

*This is to Certify that Mr./Mrs. Preethi T.S. of has participated and successfully completed Five days Workshop on New concepts in network and cyber security from 3<sup>rd</sup> January to 7<sup>th</sup> January 2017 organized by the Electronics and Communication Engineering Department, Sapthagiri College of Engineering.*

  
HOD

Dept. of ECE

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

  
Principal





## SAPTHAGIRI COLLEGE OF ENGINEERING

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

#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru- 560 057.

Web: [www.sapthagiri.edu.in](http://www.sapthagiri.edu.in), Email: [principal@sapthagiri.edu.in](mailto:principal@sapthagiri.edu.in)

Phone: 080-28 372800/1/2

Fax: 080-28 372797

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

Date: 27/12/2016

### CIRCULAR

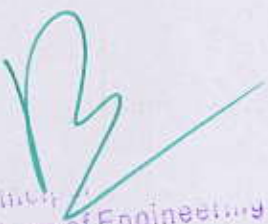
Faculties are hereby informed that department is conducting following FDP:

**Subject:** "Contemporary Topologies in Power Electronic Circuits"

**Date:** 3<sup>rd</sup> Jan 2017 to 7<sup>th</sup> Jan 2017.

● All are requested to attend the FDP without fail.

  
HOD  
Dept. Of EEE

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



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Fax: 080-28 372797

### DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

#### Minutes of Meeting

A meeting of the academic committee was held on 28/12/2016 at HOD's office, Department of EEE.

Dr. K N Ravi, Professor & Head chaired the meeting.

Committee discussed the syllabus, schedule, etc. to conduct five days FDP on "Contemporary Topologies in Power Electronic Circuits" from 3<sup>rd</sup> Jan 2017 to 7<sup>th</sup> Jan 2017 and the same was approved by the HOD.

#### Detailed Syllabus & Schedule

##### DAY 1 - Date: 03/01/2017

| Time                       | Topics  |
|----------------------------|---|
| 09:30 am<br>To<br>11:00 am | Inauguration, Invocation, welcome speech, Introduction of resource person, presidential address |
| <b>Tea Break</b>           |   |
| 11:30 am<br>To<br>1:30 pm  | Introduction to Power Electronics and Circuits,   |
| <b>Lunch Break</b>         |   |
| 02:30 pm<br>To<br>04:00 pm | Various topologies in Power Electronics Circuits  |

##### DAY 2 - Date: 04/01/2017

| Time                       | Topics                     |
|----------------------------|----------------------------|
| 09:30 am<br>To<br>11:00 am | Buck Boost Topology        |
| <b>Tea Break</b>           |                            |
| 11:30 am<br>To<br>1:30 pm  | Matrix Inverter(session 1) |
| <b>Lunch Break</b>         |                            |
| 02:30 pm<br>To<br>04:00 pm | Matrix Inverter(session 2) |

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Fax: 080-28 372797

### DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

#### DAY 3 – Date: 05/01/2017

| Time                       | Topics                            |
|----------------------------|-----------------------------------|
| 09:30 am<br>To<br>11:00 am | Z-Source Inverter                 |
| <b>Tea Break</b>           |                                   |
| 11:30 am<br>To<br>1:30 pm  | Multilevel Inverters ( Session 1) |
| <b>Lunch Break</b>         |                                   |
| 02:30 pm<br>To<br>04:00 pm | Multilevel Inverters ( Session 2) |

#### DAY 4 – Date: 06/01/2017

| Time                       | Topics   |
|----------------------------|--|
| 09:30 am<br>To<br>11:00 am | Topology of LC output Filters                            |
| <b>Tea Break</b>           |  |
| 11:30 am<br>To<br>1:30 pm  | Application of various power electronic circuit topology |
| <b>Lunch Break</b>         |  |
| 02:30 pm<br>To<br>04:00 pm | Hands on Simulation of Z-Source Inverter                 |

#### DAY 5 – Date: 07/01/2017

| Time                       | Topics   |
|----------------------------|--|
| 09:30 am<br>To<br>11:00 am | Hands on Simulation of Matrix Inverter                         |
| <b>Tea Break</b>           |  |
| 11:30 am<br>To<br>1:30 pm  | Hands on Simulation of Multi-level Inverter                    |
| <b>Lunch Break</b>         |  |
| 02:30 pm<br>To<br>04:00 pm | Question / Answer session, Feed Back, Valedictory Function etc |

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Bangalore-560 057





## SAPTHAGIRI COLLEGE OF ENGINEERING

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Phone: 080-28 372800/1/2

Fax: 080-28 372797

### DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

Academic Committee :

|   |                   |          |  |
|---|-------------------|----------|--|
| 1 | Dr. K N Ravi.,    | Chairman |  |
| 2 | Prof Rekha S N.   | Convenor |  |
| 3 | Prof A Dhamodaran | Member   |  |
| 4 | Prof. Ramya M     | Member   |  |
| 5 | Prof Rukmangada R | Member   |  |

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



REGISTRATION FORM  
5 Days Certification Program  
on

“Contemporary Topologies in  
Power Electronic Circuits”

FROM  
3rd Jan 2017 to 7th Jan 2017

Name of the Participant:

.....

Gender:

.....

Department:

.....

Name & Address of Institution:

.....

.....

Address for Communication:

.....

.....

.....

Email ID:.....

Mobile: .....

Signature of the  
Applicant

Signature & Seal of the  
HOD/ Principal

Chief Patrons

**Sri. G. Dayanand,**

Chairman, Sri. Srinivasa Educational & Charitable Trust,  
Sapthagiri Group of Institutions, Bengaluru

**Sri. G.D. Balaji,**

Executive Director, Sri. Srinivasa Educational  
& Charitable Trust, Sapthagiri Group of Institutions

**Sri. G.D. Manoj,**

Executive Director, Sri. Srinivasa Educational  
& Charitable Trust, Sapthagiri Group of Institutions

Patrons

**Dr. Ashwath Kumar M,**

Principal, SCE, Bengaluru

Program Coordinator

**Prof. Ashwini C**

Assistant Professor., EEE, SCE, Bengaluru

MEMBERS

**Prof. Jhansi K.**

Assistant Professor, EEE, SCE, Bengaluru

**Prof. Ashwini C.**

Assistant Professor, EEE, SCE, Bengaluru

**Prof. Ramya M.**

Assistant Professor, EEE, SCE, Bengaluru

**Prof. GuruPrasanna.**

Senior Grade Lecturer, EEE, SCE, Bengaluru

  
Principal

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



5 Days Certification Program  
on

“Contemporary Topologies in  
Power Electronic Circuits”

FROM  
3rd Jan 2017 to 7th Jan 2017

Organized by

Department of  
Electrical and Electronics  
Engineering



Sapthagiri College of Engineering

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

Phone: 080-28372800/01/02/03



**REGISTRATION FORM**  
**5 Days Faculty Development**  
**Programme**  
**on**

**“Contemporary Topologies in**  
**Power Electronic Circuits”**

**FROM**  
**3rd Jan 2017 to 7th Jan 2017**

**Name of the Participant:**

.....

**Gender:**

.....

**Department:**

.....

**Name & Address of Institution:**

.....

.....

**Address for Communication:**

.....

.....

.....

**Email ID:**.....

**Mobile:** .....

**Signature of**  
**the Applicant**

**Signature & Seal of**  
**the HOD/ Principal**

**Chief Patrons**

**Sri. G. Dayanand,**  
Chairman, Sri. Srinivasa Educational & Charitable Trust,  
Sapthagiri Group of Institutions, Bengaluru

**Sri. G.D. Balaji,**  
Executive Director, Sri. Srinivasa Educational  
& Charitable Trust, Sapthagiri Group of Institutions

**Sri. G.D. Manoj,**  
Executive Director, Sri. Srinivasa Educational  
& Charitable Trust, Sapthagiri Group of Institutions

**Patrons**

**Dr. Ashwath Kumar M,**  
**Principal, SCE, Bengaluru**

**Program Coordinator**

**Prof. Ashwini C**  
Assistant Professor., EEE, SCE, Bengaluru


**MEMBERS**

**Prof. Jhansi K.**  
Assistant Professor, EEE, SCE, Bengaluru

**Prof. Ashwini C.**  
Assistant Professor, EEE, SCE, Bengaluru

**Prof. Ramya M.**  
Assistant Professor, EEE, SCE, Bengaluru

**Prof. GuruPrasanna.**  
Senior Grade Lecturer, EEE, SCE, Bengaluru

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



**5 Days Faculty Development Programme**  
**on**

**“Contemporary Topologies in**  
**Power Electronic Circuits”**

**FROM**  
**3rd Jan 2017 to 7th Jan 2017**

**Organized by**

**Department of**  
**Electrical and Electronics**  
**Engineering**



**Sapthagiri College of Engineering**

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

Phone: 080-28372800/01/02/03



**Sapthagiri College of Engineering**  
14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057  
**Department of Electrical and Electronics and Engineering**  
**FACULTY DEVELOPMENT PROGRAMME COMMITTEE**

**AY 2016-17(EVEN)**

**Report on FDP on “Contemporary Topologies in Power Electronic Circuits”**

Aiming to provide an additional skill and training on technical aspects of Contemporary Topologies in Power Electronic Circuits, department conducted an FDP on “Contemporary Topologies in Power Electronic Circuits ” From 3<sup>rd</sup> Jan 2017 to 7<sup>th</sup> Jan 2017 by Prof. A. Damodharan. The session was very informative and will help the faculty members to enhance the knowledge in Power Electronics.



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





# Sapthagiri College of Engineering

Bangalore-560057

## Certificate

This is to certify that Mr. /Ms. Krupa. R  
of EEE has participated and  
successfully completed 05 days Faculty Development Program on  
"Contemporary Topologies in Power Electronics Circuits" from  
3/1/2017 to 7/1/2017 organized by the Department of Electrical &  
Electronics Engineering, Sapthagiri College of Engineering.

Dr. K N Ravi

HOD, Dept. of EEE

Principal

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

Principal





# Sapthagiri College of Engineering


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

Department of Information Science And Engineering

## CIRCULAR

26/12/16

All the faculties are hereby informed to attend the meeting in the HOD's Office at 10.30 AM on 29/12/16 to discuss about the Faculty Development Program on Python Programming.

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

  
HOD ISE  
Department of  
Information Science & Engg.  
Sapthagiri College of Engineering  
#14, Chikkasandra, Hesaraghatta Main Road  
BANGALORE - 560 057



# Sapthagiri College of Engineering

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

Department of Information Science And Engineering

## Minutes of Meeting

A meeting of all the faculties was held on 29-12-2016 at HOD's office, Department of ISE, Sapthagiri College of Engineering Prof.Prerana Chaithra, Associate Professor & Head chaired the meeting and greeted all faculty.

In the meeting the schedule and budget of five days FDP on Python Programming was discussed and approved by the HOD.

## Detailed Schedule

### DAY 1

Date: 03/01/2017

| Time                     | Topics                              |
|--------------------------|-------------------------------------|
| 2:30 pm<br>To<br>4:00 pm | Introduction to Python programming. |

04/01/2017

### DAY 2

| Time                       | Topics                      |
|----------------------------|-----------------------------|
| 08:30 am<br>To<br>10:15 am | Learning to write programs  |
| Tea Break                  |                             |
| 10:30 am<br>To<br>12:30 pm | Variables                   |
| Lunch Break                |                             |
| 01:30 pm<br>To<br>03:00 pm | expressions and statements, |
| 03:15 pm<br>To<br>04:00 pm | Conditional execution       |

### DAY 3

Date: 05/01/2017

| Time                       | Topics    |
|----------------------------|-----------|
| 08:30 am<br>To<br>10:15 am | Functions |
| Tea Break                  |           |
| 10:30 am<br>To             | Iteration |

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# Sapthagiri College of Engineering

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

Department of Information Science And Engineering

|                            |                |
|----------------------------|----------------|
| 12:30 pm                   |                |
| <b>Lunch Break</b>         |                |
| 01:30 pm<br>To<br>03:00 pm | Strings, Files |
| <b>Tea Break</b>           |                |
| 03:15 pm<br>To<br>04:15 pm | Lists          |

## DAY 4

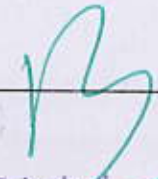
Date: 06/01/2017


| Time                       | Topics                 |
|----------------------------|------------------------|
| 08:30 am<br>To<br>10:15 am | . Dictionaries, Tuples |
| <b>Tea Break</b>           |                        |
| 10:30 am<br>To<br>12:30 pm | Regular Expressions    |
| <b>Lunch Break</b>         |                        |
| 01:30 pm<br>To<br>03:00 pm | Classes and objects    |
| <b>Tea Break</b>           |                        |
| 03:15 pm<br>To<br>04:15 pm | Classes and functions  |

Date: 07/01/2017

Day 5

| Time                       | Topics                                 |
|----------------------------|--|
| 08:30 am<br>To<br>10:15 am | Classes and methods                    |
| <b>Tea Break</b>           |  |
| 10:30 am<br>To<br>12:30 pm | Networked programs, Using Web Services |
| <b>Lunch Break</b>         |  |
| 01:30 pm<br>To<br>03:00 pm | Using databases and SQL                |

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

  
Coordinator





# Sapthagiri College of Engineering

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

Department of Information Science And Engineering

CIRCULAR

01/01/17

All the Faculties of Information Science and Engineering Department are hereby informed to attend five days Faculty Development Program on Python Programming from 3<sup>rd</sup> January 2017 to 7<sup>th</sup> January 2017.

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

HOD ISE  
Department of  
Information Science & Engg.  
Sapthagiri College of Engineering  
14/5, Chikkasandra, Hesaraghatta Main Road,  
BANGALORE - 560 057





**Five Days FDP**  
**On**  
**“Python Programming”**  
**FROM 03<sup>th</sup> Jan 2017 to 07<sup>th</sup> Jan 2017**

**Organized by**  
**Department of**  
**Information Science and**  
**Engineering**



**Sapthagiri College of Engineering**  
#14/5, Chikkasandra, Hesaraghatta Main  
Road, Bengaluru 560057  
Phone: 080-28372800/01/02/03

#### About the College

Sapthagiri Group of Institutions is the creation of Sri Srinivasa Educational & Charitable trust, Bengaluru. Sapthagiri College of Engineering is the brainchild of honorable Sri Giriappa, Founder Chairman and Sri. G. Dayanand, Chairman of Sri Srinivasa Educational & Charitable trust. Sri G.D. Manoj, is the Executive Director of SCE. SCE began its glorious journey in the year 2004. It is approved and accredited by AICTE, New Delhi and is affiliated to VTU Belagavi, Karanataka. The campus of Sapthagiri College of Engineering is spread across 6.5 acres of lush green land with beautiful landscape. The area enjoys pleasant atmosphere throughout the year. The college has secured 22 University ranks and 4 Gold medals.

#### Vision

To create and maintain an enabling learning environment for the students to transform them as thorough professionals to meet diverse professional demands of global environments.

#### Mission

To provide quality education to the students to pursue courses in different engineering disciplines and to transform their professional dreams into reality and to offer competent budding professionals to the society.

#### About the Department:

The Information Science and Engineering Department had its beginning in the year 2001 with an intake of 120 students, and is one of the pioneering departments at Sapthagiri College of Engineering. The Department has well qualified and dedicated faculty members, who always put in their best efforts to ensure that quality education is imparted to students. The Department will be striding in the progressive path to achieve excellence in academics and research activities. Apart from the

qualified faculty and staff, the Department has state-of-the-art laboratories and latest software's.

#### About the FDP:

Its objectives are

- To enhance the skills of faculties in the coding environment.
- To understand the usefulness, simplicity of the language.

#### Resource Persons:

**Prof Chaitra .U**  
Associate Professor  
Dept of Computer science and  
Engineering  
Sapthagiri College of Engineering  
Bangalore

#### Address for Communication/Registration

**Prof. Gayatri R**  
Assistant Professor, CSE  
Ph: 8147290734

**Prof.Ramya R.**  
Asistant Professor  
Ph: 8884816537

#### Email-id for registration:

[gayatrirkrishna@sapthagiri.edu.in](mailto:gayatrirkrishna@sapthagiri.edu.in)


Principal  
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Chikkasandra, Hesaraghatta Road,  
Bangalore-560 057



## FDP on “Python Programming” Attendance

| Sl<br>N<br>o. | Faculty Name        | 3.1.17   |          | 4.1.17   |          | 5.1.17   |          | 6.1.17   |          | 7.1.17   |          |
|---------------|---------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|               |                     | MS       | AS       | MS       | AS       | MS       | AS       | MS       | AS       | MS       | AS       |
| 1             | Prof Sunitha K      | Ks       | Ks       | Ks       | Ks       | Ks       | Ks       | Ks       | Ks       | Ks       | Ks       |
| 2             | Prof Malathi K P    | KP       | KP       | KP       | KP       | KP       | KP       | KP       | KP       | KP       | KP       |
| 3             | Prof Ravichandra M  | R        | R        | R        | R        | R        | R        | R        | R        | R        | R        |
| 4             | Prof Ranya R        | R        | R        | R        | R        | R        | R        | R        | R        | R        | R        |
| 5             | Prof Prkruthi S T   | ST       | ST       | ST       | ST       | ST       | ST       | ST       | ST       | ST       | ST       |
| 6             | Prof Vijay Kumar FG | Vj       | Vj       | Vj       | Vj       | Vj       | Vj       | Vj       | Vj       | Vj       | Vj       |
| 7             | Prof Meghana        | Megha    | Megha    | Megha    | Megha    | Megha    | Megha    | Megha    | Megha    | Megha    | Megha    |
| 8             | Prof Tejaswini B.S  |          |          |          |          |          |          |          |          |          |          |
| 9             | Prof Sheethal Raj   | Sheethal | Sheethal | Sheethal | Sheethal | Sheethal | Sheethal | Sheethal | Sheethal | Sheethal | Sheethal |
| 10            | Prof Sowmya Somnath | Sowmya   | Sowmya   | Sowmya   | Sowmya   | Sowmya   | Sowmya   | Sowmya   | Sowmya   | Sowmya   | Sowmya   |
| 11            | Prof SarjayKumar    | Sarjay   | Sarjay   | Sarjay   | Sarjay   | Sarjay   | Sarjay   | Sarjay   | Sarjay   | Sarjay   | Sarjay   |
| 12            | Prof Gayatri R      | Gayatri  | Gayatri  | Gayatri  | Gayatri  | Gayatri  | Gayatri  | Gayatri  | Gayatri  | Gayatri  | Gayatri  |
| 13            | Prof Divyashree G   | D        | D        | D        | D        | D        | D        | D        | D        | D        | D        |
| 14            | Prof Bhavya         | B        | B        | B        | B        | B        | B        | B        | B        | B        | B        |
| 15            | Prof Praneetha G N  | D        | D        | D        | D        | D        | D        | D        | D        | D        | D        |
| 16            | Prof Ambika S       | A        | A        | A        | A        | A        | A        | A        | A        | A        | A        |

  
Coordinator

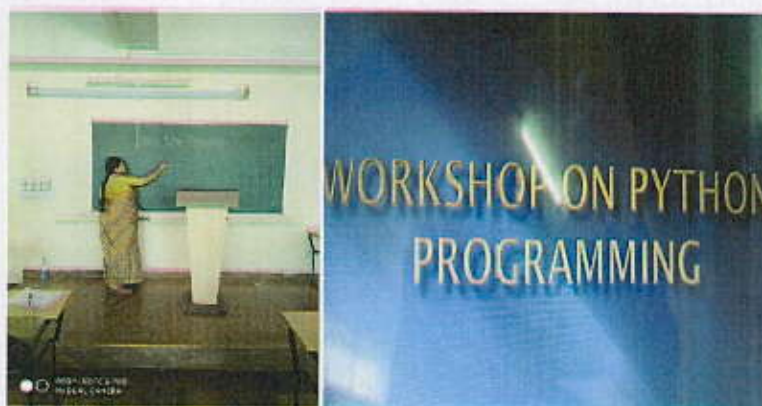
  
Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore-560 057



### **Report on Python Programming**


No of Participants = 16

Aiming to provide an Faculty Development Program on Python Programming for the faculties of Department of Information Science Engineering, Sapthagiri College of Engineering held during. 3<sup>rd</sup> January 2017 to 7<sup>th</sup> January 2017. The resource person for this FDP is Prof Chaitra Department of CSE, Sapthagiri College of Engineering Bangalore. Overall the faculties felt that the session was informative & gained knowledge about Python Programming and its applications. Faculties were able to understand to develop web applications, data sciences, creating software applications etc. The hands on session provided good practical knowledge to the faculties.



FDP on Python Programming by Prof Chaithra U

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

  
**Coordinator**





# Sapthagiri College of Engineering

Bangalore-560057

## Certificate

This is to Certify that Mr./Ms. RAMYA R  
of Information Science and Engineering has participated  
and successfully completed Five days Faculty Development Program on  
"Python Programming" from 3<sup>rd</sup> January, 2017 to 7<sup>th</sup> January,  
2017 organized by the Department of Information Science &  
Engineering, Sapthagiri College of Engineering.

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

Principal

  
HOD, Dept of ISE

  
Principal





**DEPARTMENT OF MECHANICAL ENGINEERING  
SAPTHAGIRI COLLEGE OF ENGINEERING**

Affiliated to Visvesvaraya Technological University Belagavi & Approved by AICTE, New Delhi.)  
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru- 560 057.

Date: 120/12/2017

**CIRCULAR**

Mechanical Engineering faculty are hereby informing that there will be a faculty development program entitled "A Course in teaching techniques of Applied Thermodynamics" for three days on 3<sup>rd</sup> Jan. 2017 to 7<sup>th</sup> Jan. 2017. The interested candidates enroll your names with Mr. Padmanabha G.



HOD

Department of Mechanical Engineering

1.O.D. Dept. of Mech. Engg  
S.C.E., Bangalore-560 057



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



Date: 19/12/2017


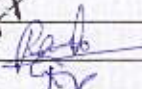



### Minutes of Meeting

A meeting was conducted on 19<sup>th</sup> Dec. 2016 in Mechanical HOD office to discuss and finalize the following about the five days faculty development programme. The following points have discussed in the meeting

- FDP program for Mechanical faculty on 3<sup>rd</sup> Jan. 2017 to 7<sup>th</sup> Jan. 2017.
- Programme Convener- Mr. Padmanabha G
- Certificate program entitled as **A Course in teaching techniques of Applied Thermodynamics.**
- Course duration and Date

### Course Content

| Date       | Morning Session<br>9 30 a.m. to 12.30 p.m. | Afternoon Session<br>2.00 p.m. to 5.00 p.m. |
|------------|--|---|
| 03/01/2017 | Registration & Inauguration Function       | Air Standard Cycles                         |
| 04/01/2017 | Vapor Power Cycles and Steam nozzles       | Combustion Thermodynamics                   |
| 05/01/2017 | I C Engines                                | Air Conditioning                            |
| 06/01/2017 | Refrigeration                              | Air Compressors                             |
| 07/01/2017 | Air Compressors                            | Valedictory Function                        |

|                    |  |
|--------------------|--|
| Mr. Padmanabha G   |  |
| Mr. RamKumar M     |  |
| Mr. Ramesh N G     |  |
| Mr. MadhuKumar Y C |   |
| Mr. ArunKumar R    |  |

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

  
H.O.D. Dept. of Mech. Engg  
S.C.E., Bangalore-560 057



## About the College

Sapthagiri Group of Institutions is the creation of Sri Srinivasa Educational & Charitable trust, Bengaluru. Sapthagiri College of Engineering is the brainchild of honorable Sri Late Giriappa, Founder Chairman and Sri. G. Dayanand, Chairman of Sri Srinivasa Educational & Charitable trust. Sri G.D. Manoj, is the Executive Director of SCE. SCE began its glorious journey in the year 2001. It is approved and accredited by AICTE, New Delhi and is affiliated to VTU Belagavi, Karnataka. The campus of Sapthagiri College of Engineering is spread across 6.5 acres of lush green land with beautiful landscape. The area enjoys pleasant atmosphere throughout the year.

### Vision

To be a best institution imparting quality engineering education to deal with community needs through learning and performance.

### Mission

To implement path breaking student centric education methods. -To augment talent, nurture teamwork to transform to develop individual as responsible citizen. -To educate the students and faculties about entrepreneurship to meet vibrant requirements of the society. -Strengthen Industry-Institute Interaction for knowledge sharing.

### Chief Patrons

**Sri. G. Dayanand,**  
Chairman, Sri. Srinivasa Educational & Charitable Trust, Sapthagiri Group of Institutions, Bengaluru

**Sri. G.D. Balaji,**  
Executive Director, Sri. Srinivasa Educational & Charitable Trust, Sapthagiri Group of Institutions

**Sri. G.D. Manoj,**  
Executive Director, Sri. Srinivasa Educational & Charitable T, Sapthagiri Group of Institutions

### Patrons

**Dr. AswathKumar M**  
Principal, SCE, Bengaluru

### Convener

**Dr.S H Manjunath**  
Prof.& HOD, Dept. of ME, SCE, Bengaluru

### Coordinator

**Mr. Padmanabha G**  
Asst. Professor, SCE, Bengaluru

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

## Faculty Development Programme

On

A Course in teaching techniques of Applied Thermodynamics

On

3<sup>rd</sup> -7<sup>th</sup> January 2017

Organized by

**Sapthagiri College of Engineering**

Department of Mechanical Engineering

#14/5, Chikkasandra, Hesarghatta Main Road, Bengaluru 560057

Phone: 080-28372800/01/02/03



### About the FDP:

This Faculty Development Training Program is intended to provide opportunity for teachers employed in AICTE approved and Anna University affiliated institutions for teaching and upgrading their knowledge in the area of Composite Materials and Mechanics. The program will be very useful for those who are involved in teaching the course Composite Materials and Mechanics at UG level. This will also provide a basic platform for a faculty who is willing to carry out research in this area.

### Topics to be covered

Air Standard Cycles, Gas Turbine cycles, vapor power cycles, Refrigeration Cycles and Air Conditioning Cycles

### Resource Persons:

**Prof. Shivamurali Mohan Reddy A**  
Assistant Professor  
Department of Mechanical Engineering  
P E S Institute of Technology Bangalore

**Prof. Basavaraj Ganiger**  
Assistant Professor  
Department of Mechanical Engineering  
Kalpataru Institute of Technology Tiptur



**DEPARTMENT OF MECHANICAL ENGINEERING**  
**SAPTHAGIRI COLLEGE OF ENGINEERING**

Affiliated to Visvesvaraya Technological University Belagavi & Approved by AICTE, New Delhi.)  
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru- 560 057.

**FDP ON**  
**A Course in teaching techniques of Applied Thermodynamics**  
**Attendance**

| Sl. No. | Name             | 03-01-2017 |    | 04-01-2017 |    | 05-01-2017 |    | 06-01-2017 |    | 07-01-2017 |    |
|---------|------------------|------------|----|------------|----|------------|----|------------|----|------------|----|
|         |                  | MS         | AN | MS         | AN | MS         | AN | MS         | AN | MS         | AN |
| 1       | Anjan Kumar      |            |    |            |    |            |    |            |    |            |    |
| 2       | Poothima CN      | 1          | 2  | 3          | 4  | 5          | 6  | 7          | 8  | 9          | 10 |
| 3       | T. Venkatesh     | 1          | 2  | 3          | 3  | 4          | 5  | 6          | 7  | 8          | 9  |
| 4       | Ramkumar.M       | 1          | 2  | 3          | 4  | 5          | 6  | 7          | 8  | 9          | 10 |
| 5       | Ullas.C.S        | 1          | 2  | 3          | 4  | 5          | 6  | 7          | 8  | 9          | 10 |
| 6       | Hadhukumar.Y.C   | 1          | 2  | 3          | 4  | 4          | 5  | 6          | 7  | 8          | 9  |
| 7       | A.H. Mahesh      | 1          | 2  | 3          | 4  | 5          | 6  | 7          | 8  | 9          | 10 |
| 8       | Mahadev Poovali  | 1          | 2  | 3          | 4  | 5          | 5  | 6          | 7  | 8          | 9  |
| 9       | Ramesh.N.G       | 1          | 2  | 3          | 4  | 5          | 6  | 7          | 8  | 9          | 10 |
| 10      | P.K. Rao         | 1          | 2  | 3          | 4  | 5          | 6  | 7          | 8  | 9          | 10 |
| 11      | Padmanabh.G      | 1          | 2  | 3          | 4  | 5          | 6  | 6          | 7  | 8          | 9  |
| 12      | Tilak.S          | 1          | 2  | 3          | 4  | 5          | 5  | 6          | 7  | 8          | 9  |
| 13      | Poornod.G.V.     | 1          | 2  | 3          | 4  | 5          | 6  | 7          | 8  | 9          | 10 |
| 14      | Anil Kumar.P.R.  | 1          | 2  | 3          | 4  | 5          | 6  | 7          | 8  | 9          | 10 |
| 15      | Gr. R. Jagannath | 1          | 2  | 3          | 4  | 5          | 6  | 6          | 7  | 8          | 9  |
| 16      | Arunkumar.R      | 1          | 2  | 3          | 4  | 5          | 6  | 7          | 8  | 9          | 10 |
| 17      | Mahesh.J.        | 1          | 2  | 3          | 4  | 5          | 6  | 7          | 7  | 8          | 9  |
| 18      | Nataraj.H.N.     | 1          | 2  | 3          | 4  | 5          | 6  | 7          | 8  | 9          | 10 |
| 19      | Rajalakshmi.S    | 1          | 2  | 3          | 4  | 5          | 6  | 7          | 7  | 8          | 9  |
| 20      | Sangay.H.M.      | 1          | 2  | 3          | 4  | 5          | 6  | 7          | 8  | 9          | 10 |
| 21      | Anjan Kumar      | 1          | 2  | 3          | 4  | 5          | 6  | 7          | 8  | 8          | 9  |

Principal

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

Signature of Convener



## REPORT

### FDP on A Course in teaching techniques of Applied Thermodynamics

Department of mechanical Engineering organized FDP on A Course in teaching techniques of Applied Thermodynamics

#### Speakers

Prof. Basavaraj Ganiger, Assistant Professor, Department of Mechanical Engineering, Kalpataru Institute of Technology Tiptur

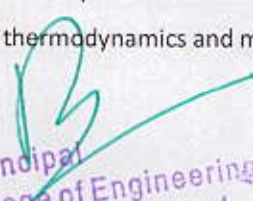
Prof. Shiva Murali Mohan Raddy, Assistant Professor, Department of Mechanical Engineering, P E S Institute of Technology Bangalore


**Duration of the course:** Jan. 3<sup>rd</sup> 2017 to Jan. 7<sup>th</sup> 2017

| Date       | Morning Session<br>9.30 a.m. to 12.30 p.m. | Afternoon Session<br>2.00 p.m. to 5.00 p.m |
|------------|--|--|
| 03/01/2017 | Registration & Inauguration Function       | Air Standard Cycles                        |
| 04/01/2017 | Vapor Power Cycles and Steam nozzles       | Combustion Thermodynamics                  |
| 05/01/2017 | I C Engines                                | Air Conditioning                           |
| 06/01/2017 | Refrigeration                              | Air Compressors                            |
| 07/01/2017 | Air Compressors                            | Valedictory Function                       |



The FDP intended to provide an intense discussion on A Course in teaching techniques of Applied Thermodynamics, The faculty members felt that the session was informative & gained knowledge about applications of thermodynamics and methods of effective teaching techniques.

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

  
Signature of the Convener



# Sapthagiri College of Engineering

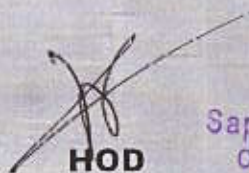
Affiliated to Visvesvaraya Technological University Belagavi & Approved by AICTE, New Delhi.)

#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru- 560 057.

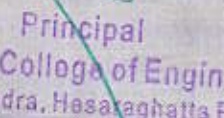


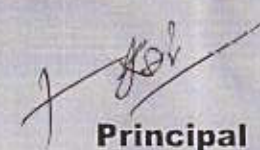
## Certificate

*This is to Certify that Mr./Mrs. NATARAJU H N of has participated and successfully completed Five days FDP on "A Course in teaching techniques of Applied Thermodynamics" from 3<sup>d</sup> Jan. to 7<sup>th</sup> Jan. 2017 organized by the Mechanical Engineering Department, Sapthagiri College of Engineering.*

  
HOD

Dept. of ME

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

  
Principal





## Sapthagiri College of Engineering

4/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057  
Department of Information Science and Engineering

### CIRCULAR

13-12-2016

Department of Information Science and Engineering of S.C.E. are conducting a Personality Development Program on Time management for the Non Teaching staffs in the Main Seminar Hall at 11.30 am on 15th December 2016. All the Non Teaching staffs are hereby informed to come to the seminar hall.

Principal

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

HOD ISE





# Sapthagiri College of Engineering

4/5, Chikkasandra, Hesaraghatta Main Road. Bengaluru - 560057  
Department of Information Science and Engineering

## Time Schedule

Date: 15/12/2016

| Time                       | Topics                                    |
|----------------------------|---|
| 10:30 am<br>To<br>12:00 pm | Seminar on Effective Utilization of Time. |

HOD

Dept. of ISE

Principal

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





## Personality Development Program Seminar On

### "Time Management"

On 15/12/2016

**Organized by**  
**Department of**  
**Information Science and**  
**Engineering**



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

Principal

Sapthagiri College of Engineering  
# 14/5, Chikkasandra, Hesaraghatta Main Road,  
Bengaluru 560057  
Phone: 080-28372800/01/02/03

## About the College

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### Vision

To create and maintain an enabling learning environment for the students to transform them as thorough professionals to meet diverse professional demands of global environments.

### Mission

To provide quality education to the students to pursue courses in different engineering disciplines and to transform their professional dreams into reality and to offer competent budding professionals to the society.

### About the Department:

The Information Science and Engineering Department had its beginning in the year 2001 with an intake of 120 students, and is one of the pioneering departments at Sapthagiri College of Engineering. The Department has well qualified and dedicated faculty members, who always put in their best efforts to ensure that quality education is imparted to students. The Department will be striding in the progressive path to achieve excellence in academics and research activities.

Apart from the qualified faculty and staff, the Department has state-of-the-art laboratories and latest software's.

### About the FDP:

Process of increasing the Productivity with respect to time.

### Resource Persons:

**Mr Anant**  
Asistant Professor  
Dept of Basic Science  
Sapthagiri College Of Engineering

### Address for Communication/Registration

**Prof. Gayatri R**  
Assistant Professor, CSE  
Ph: 8147290734

**Prof.Ramya R.**  
Asistant Professor  
Ph: 8884816537

### Email-id for registration:

[gayatrirkrishna@sapthagiri.edu.in](mailto:gayatrirkrishna@sapthagiri.edu.in)



Seminar on "Time Management" Attendance

Date 15.2.2016

| Sl No. | Name              | Sign        |
|--------|-------------------|-------------|
| 1      | CMESHA Bx         | [Signature] |
| 2      | KAMALA            | [Signature] |
| 3      | Bhegya            | [Signature] |
| 4      | Kaithirnarayana   | [Signature] |
| 5      | Mangalagiri       | [Signature] |
| 6      | Uma C parate      | [Signature] |
| 7      | veeragouda        | [Signature] |
| 8      | Nagendra          | [Signature] |
| 9      | Narayana          | [Signature] |
| 10     | Siddagouda        | [Signature] |
| 11     | Pragathi          | [Signature] |
| 12     | Nagare            | [Signature] |
| 13     | Ashwini B. Ashwin | [Signature] |
| 14     | praveethama       | [Signature] |
| 15     |                   |             |
| 16     |                   |             |
| 17     |                   |             |

  
HOD

Department of  
Information Science & Engg  
Sapthagiri College of Engineering  
#14/5, Chikkasandra, Hesaraghatta Main Road  
BANGALORE - 560 057

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



**Personality Development Program**  
**Seminar on Time Management**

No of participants=14

Sapthagiri College of Engineering conducted a seminar on Time management for Non-teaching staff members by Mr. Anant Assistant Professor Department of Basic Science on 15.12.2016 in the seminar hall. Time management is one of the best activities to build awareness on efficient time management. He clearly explained the process of planning and control of time spent on the specific activities and how to increase the productivity with respect to the time.



**Seminar on Time Management by Prof Anant.**



Principal

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



Coordinator






# Sapthagiri College of Engineering

Bangalore-560057

## Certificate

This is to certify that Mr. /Ms. PARVATHAMMA  
Of Sapthagiri College of Engineering has participated  
in the seminar on "Personality Development A Seminar On Time  
Management" on 15<sup>th</sup> Dec 2016 organized by the Department of  
Information Science & Engineering, Sapthagiri College of Engineering.

  
HOD, Dept of ISE

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

  
Principal





# SAPTHAGIRI COLLEGE OF ENGINEERING

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi.)  
# 4/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru- 560 057.  
Web: [www.sapthagiri.edu.in](http://www.sapthagiri.edu.in), Email: [principal@sapthagiri.edu.in](mailto:principal@sapthagiri.edu.in)

Phone: 080-28 372800/1/2

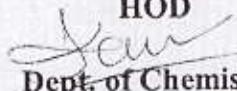
Fax: 080-28 372797

Date: 05/12/2016

## CIRCULAR

Office staff are here by informed about Chemistry department is conducting Staff development program on Talk on Effective office administration and financial management for one day on 09/12/2016, All office staff participate in staff development program.

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

HOD  
  
Dept. of Chemistry  
Dr. B.S. Krishna  
Professor & HOD  
Department of Chemistry  
Sapthagiri College of Engineering  
Bangalore - 560 057





# SAPTHAGIRI COLLEGE OF ENGINEERING

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#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru- 560 057.

Web: [www.sapthagiri.edu.in](http://www.sapthagiri.edu.in), Email: [principal@sapthagiri.edu.in](mailto:principal@sapthagiri.edu.in)

Phone: 080-28 372800/1/2

Fax: 080-28 372797

## Training on Effective Office Administration and Financial Management Program Schedule

**Speaker: Dr. Jagadeesha Gowda G V**

Prof. & Head, Department of Physics

Sapthagiri College of Engineering, Bangalore-560057

Date: 09/12/2016

| Time                       | Topics   |
|----------------------------|--|
| 10:30 am<br>To<br>12:30 pm | Understanding Your Organization, Managing People and Processes |
| Lunch Break                |  |
| 01:30 pm<br>To<br>04:30 pm | Personnel Management, File Management, Ethical Behavior        |


  
**Dr. B.S. KRISHNA**

Professor & Head

Department of Chemistry

Sapthagiri College of Engineering

BENGALURU - 560 057.

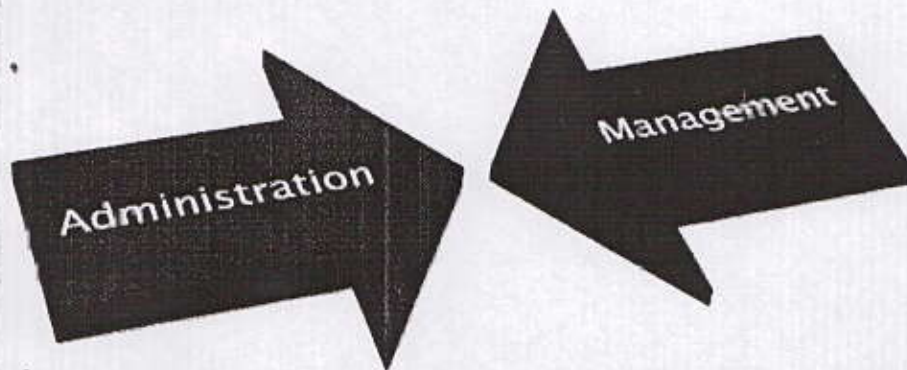
  
Principal  
Sapthagiri College of Engineering  
14/5, Chikkasandra, Hesaraghatta Main Road  
Bengaluru - 560 057





## **SAPTHAGIRI COLLEGE OF ENGINEERING**

(Affiliated to VTU, Belagavi, Approved by AICTE, New Delhi)  
14/5, Hesaraghatta Main Road Bengaluru-560057



### **"Training on Effective Office Administration and Financial management"**


By

**Dr. Jagadeesha Gowda G V**  
Professor and Head, Department of Physics

Date: 9/12/2016

Organized by:

**SAPTHAGIRI COLLEGE OF ENGINEERING**

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



## Report of Effective Office Administration and Financial Management Training

### Introduction

This Training on Effective Office Administration and Financial Managements provided to Senior/Middle/Junior Office staff, according to the needs of the organizations with the focus on providing inputs for improved resource management and enhancing managerial adaptability to meet the requirements of fast changing work environment.

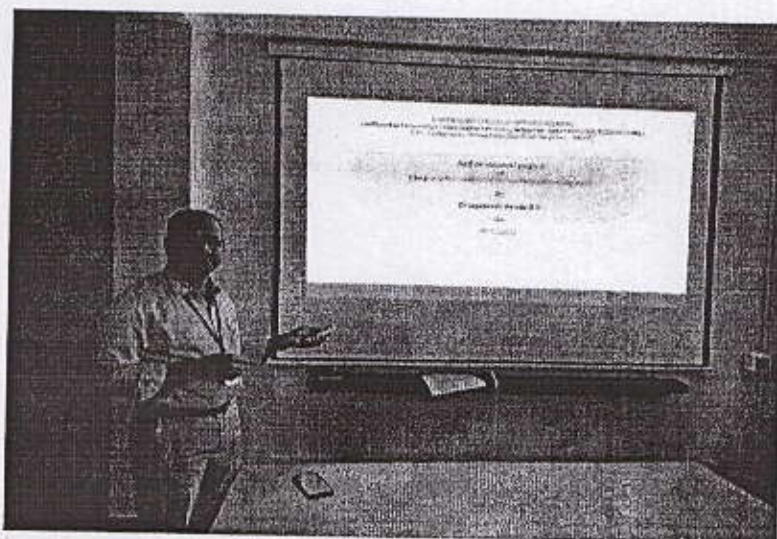
### Objectives

The major objectives kept in mind while framing this Training on Effective Office Administration and Financial Management were as follows:

- To provide an understanding on the concept of Effective Office Administration and Financial Management.
- To help the participant to develop skills for team work and conflicts management.
- To understand various aspects of Financial Management.
- To provide the participants with an opportunity to share their experiences and also to understand different managerial styles.

The programme was attended by 11 participants on 09/12/2016 from Sapthagiri College of Engineering. Attendees included only Office staff form varied background.

### Summary



**Speaker:** Dr. Jagadeesha Gowda G V, HOD of Physics

**Topic:** Training on Effective Office Administration and Financial Management

**Methodology:** Methodology of the training programme would be participative in nature. The sessions would be based on conceptual deliberations, case studies, success stories and group exercises/discussions.

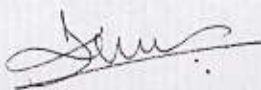
*[Signature]*  
Principal  
Sapthagiri College of Engineering  
14/5, Chikkasandra, Hesaragatta Main Road  
Bengaluru - 560 057




The speaker explained what Training on Effective Office Administration and Financial Management was all about. They explained the below mentioned contents in the following throughout talk,

- Basic concepts on Effective Office Administration
- Leadership and Communication Skills
- Trends and Challenges in Office Management
- Organizational Communication and Team Performance
- Tools and techniques of Financial Risk Management
- Financial Decision Making & Valuation Techniques

Keeping in view of the above requirements of modern organizations, Effective Office Administration and Financial Management Training programme has been organized to the participants in effectively handling Office Administration and Financial Management so that managerial efficiency as well as organizational productivity is constantly improved

  
**Dr. B.S. Krishna**  
Professor & HOD  
Department of Chemistry  
Sapthagiri College of Engineering  
Bengaluru - 560 057

  
Principal  
**Sapthagiri College of Engineering**  
14/5, Chikkasandra, Hesaraghatta Main Road  
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Principal  
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Sri Srinivasa Educational & Charitable Trust  
**SAPTHAGIRI COLLEGE OF ENGINEERING**  
(Affiliated to VTU, Belagavi, and Recognized by AICTE, New Delhi)  
Chikkasandra, Hesaraghatta Road, Bangalore-560057

Training on effective office administration and financial management

Attendance sheet

| Sl. No. | Name of office staff | Date:09.12.16<br>Morning session | Date:09.12.16<br>Afternoon session |
|---------|----------------------|----------------------------------|------------------------------------|
| 1       | Mahalakshmi R        | <i>mil</i>                       | <i>ma</i>                          |
| 2       | Padmashree G         | <i>Padmashree G</i>              | <i>Padmashree G</i>                |
| 3       | NayanaRangaraj       | <i>Nayana</i>                    | <i>Nayana</i>                      |
| 4       | Ramesh M             | <i>Ramesh M</i>                  | <i>Ramesh M</i>                    |
| 5       | Hanume Gowda K H     | <i>Hanume Gowda</i>              | <i>Hanume Gowda</i>                |
| 6       | Rajanna N            | <i>Rajanna</i>                   | <i>Rajanna</i>                     |
| 7       | Jayashree B L        | <i>Jayashree</i>                 | <i>Jayashree</i>                   |
| 8       | Sayesuthe A M        | <i>AM. Sayesuthe</i>             | <i>AM. Sayesuthe</i>               |
| 9       | Jyothirmayee P H     | <i>Jyothirmayee</i>              | <i>Jyothirmayee</i>                |
| 10      | Nagarathna M V       | <i>Nagarathna</i>                | <i>Nagarathna</i>                  |
| 11      | Suma B               | <i>Suma</i>                      | <i>Suma</i>                        |

*[Signature]*  
Principal

**Sapthagiri College of Engineering**  
14/6, Chikkasandra, Hesaraghatta Main Road  
Bangaluru - 560 057





**SAPTHAGIRI COLLEGE OF ENGINEERING**  
**Department of Electronics and Communication Engineering**  
(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi.)  
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru- 560 057.  
Web: [www.sapthagiri.edu.in](http://www.sapthagiri.edu.in), Email: [principal@sapthagiri.edu.in](mailto:principal@sapthagiri.edu.in)  
Phone: 080-28 372800/1/2 -223 Fax: 080-28 372797

To,

Dr. Dinesh Anvekar K  
Principal,  
Alpha College of Engineering  
Bengaluru.

Dear Sir,

Sub: Technical Talk on Intellectual Property Rights (IPR).

The Sapthagiri College of Engineering is arranging technical talk on Intellectual Property Rights (IPR). We request you to kindly arrange for the lecture. The subject will be of interest to the Engineering college faculties. As per your request, Transport will be arranged for Pick-up and drop of the guest lecturer. The details of the event is provided below.

Date: 13.09.2016

Time: 2PM to 4PM

Venue: 405, Academic Block

Thanking you,

**Dr. KN Ravi**

The HOD and IPR Convenor

Department of Electrical and Electronics Engineering

Sapthagiri College of Engineering

Bengaluru

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






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Phone: 080-28 372800/1/2 Fax: 080-28 372797

## CIRCULAR

The college is organizing one day FDP on "Importance of Patent for Engineering Faculty" by **Dr. Dinesh Anvekar K** on 13.09.2016 from 2PM to 4PM in Room No 406 Academic block.

Hence hereby informing all faculties to attend the same.

  
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### Intellectual Property Right Report

**Topic: "Importance of Patents for Engineering Faculty"**

By

**Dr. Dinesh Anvekar K**

Principal,

Alpha College of Engineering  
Bengaluru.

Date: 13.09.2016

Time: 2 PM to 4 PM

Venue: Room No 406, SCE Bengaluru.

The Sapthagiri College of Engineering conducted a one day FDP on "Importance of Patents for Engineering Faculty" for creating awareness about Intellectual Property Rights amongst faculty. The session started with welcome note and introduction of the speaker by Prof. Rekha, Dept of EEE.

The speaker Dr. Dinesh Anvekar stated that India has become a member of the global patent regime but awareness and expertise on the subject of Intellectual property Rights (IPR) in the academic institutions is still inadequate. Maintenance of a proper balance and fine tuning of academic excellence with academic integrity and protection and exploitation of intellectual property rights is becoming very important for the universities.

In the current scenario the aggressive and targeted creation of intellectual property is the need. Protection of IPR and its commercialization propagates innovative culture, profitability, market leadership and helps creation of wealth for the individual and eventually the Nation. For that IPR awareness is required which is significant for fruitful growth of the Intellectual property rights (IPRs).

The programme included talks on importance of IPRs and their protection, Patenting procedures and patent informatics, patent searches, role of innovation and invention in the

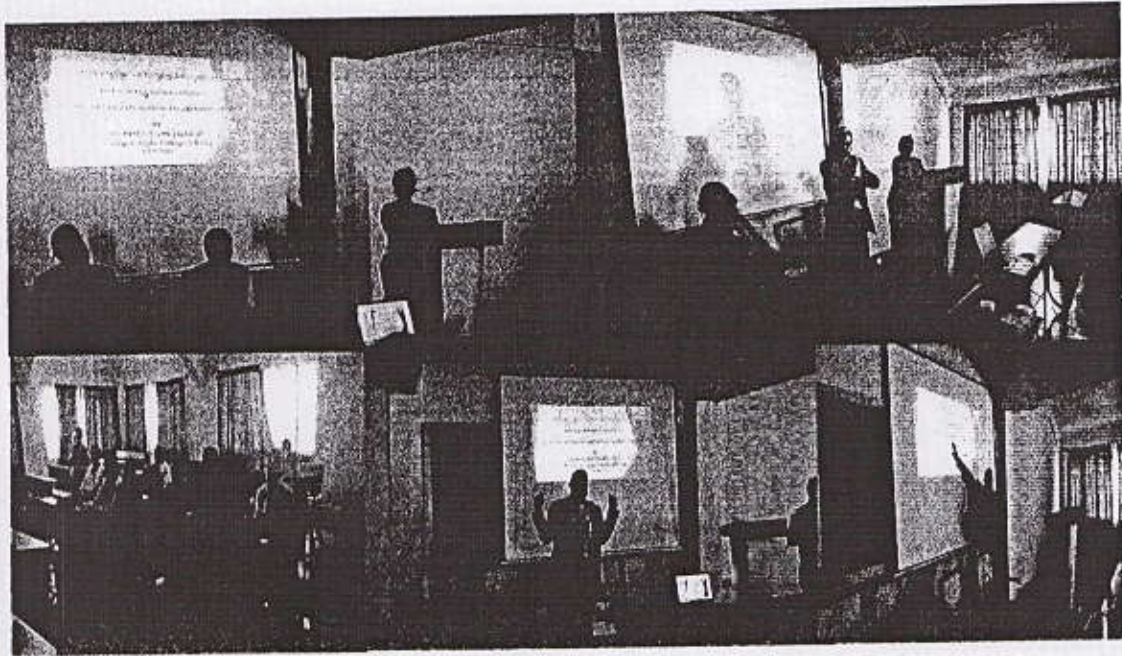
  
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academia-industry collaborations, trademark and copyright protection, issues of do's and don'ts for a researcher in the context of publishing and patenting. The talk was very much appreciated by the participants.

### Photo Gallery



*Dr. KN Ravi*  
HOD EEE

*Dr. Aswatha Kumar*  
Principal

Principal  
Sapthagiri College of Engineering  
14/5, Chikkasandra, Hesaraghatta Main Road  
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### Attendance Report of

“One day FDP on Importance of patents for Engineering Faculty”

Date: 13.09.2016

| Sl No | Name                   | Department | Signature      |
|-------|------------------------|------------|----------------|
| 1     | Sudha M.S              | EC         | Sudha          |
| 2     | Angela K. K.           | ECE        | Angela         |
| 3     | SHILPA V.              | K&LE       | Shilpa V.      |
| 4     | S. SHOBHA              | ECE        | S. Shobha      |
| 5     | Karthik K. C.          | ECE        | Karthik        |
| 6     | Karthik K. P.          | ECE        | Karthik        |
| 7     | RAVI SHANKAR. H.N      | ECE        | Ravi Shankar   |
| 8     | Vani A                 | EC         | Vani A         |
| 9     | Prathvi T.S.           | ECE        | Prathvi        |
| 10    | SUMIT V SHETTY         | ECE        | Sumit V Shetty |
| 11    | Suman C                | ECE        | Suman          |
| 12    | Kalpa                  | CSE        | Kalpa          |
| 13    | Madhushree             | CSE        | Madhushree     |
| 14    | Kavya N. L             | CSE        | Kavya          |
| 15    | Chaitra                | CSE        | Chaitra        |
| 16    | Kavitha                | CSE        | Kavitha        |
| 17    | JEENA K.R              | CSE        | Jeena          |
| 18    | Aradhya B              | CSE        | Aradhya        |
| 19    | Prof. Prasanna Chaitra | ISE        | Prof. Prasanna |
| 20    | KAVI CHANDRA M         | IJR        | Kavi Chandra   |
| 21    | Parvathy K. M. J. H.   | IJR        | Parvathy       |
| 22    | Ravi K                 | IJR        | Ravi           |
| 23    | Gayathri R             | IJR        | Gayathri       |
| 24    | Shravya N.P            | Maths      | Shravya        |
| 25    | Bindu H. G             | Maths      | Bindu          |
| 26    | Deepa K. R             | Maths      | Deepa          |
| 27    | Santhosh H. C          | Maths      | Santhosh       |
| 28    | Prasanna M             | Maths      | Prasanna       |
| 29    | R. RUKMANGADA          | EEE        | R. Rukmangada  |
| 30    | A. Dharmadaram         | EEE        | A. Dharmadaram |
| 31    | Varadachari R          | EEE        | Varadachari    |
| 32    | Divyanshu N. S         | EEE        | Divyanshu      |
| 33    | Ravi S. M              | EEE        | Ravi           |
| 34    | Aravind K              | EEE        | Aravind        |
| 35    | Ratna S. N             | EEE        | Ratna          |

  
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To,

Mr. Sunil S.  
General Manager,  
Advanced Electronic Systems (A/S),  
Bangalore

Dear Sir,

Sub: Seminar on Entrepreneurship.


The Sapthagiri College of Engineering is arranging seminar on Entrepreneurship. We request you to kindly arrange for the lecture. The subject will be of interest to the Engineering college students. As per your request, Transport will be arranged for Pick-up and drop of the guest lecturer. The details of the event is provided below.


Date: 08.08.2016

Time: 10.30 to 12.30

Venue: Seminar Hall, SCE Bangalore

Thanking you,

  
Dr. K.N. Ravi  
Professor and Head  
Department of Electrical and Electronics Engineering  
Sapthagiri College of Engineering  
Bengaluru

  
Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
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Talk on

### *"Innovative Business and Breakthrough technologies"*

By

SUNIL,

GENERAL MANAGER.

ADVANCED ELECTRONIC SYSTEMS

Organised by

RDECI,

SCE, BANGALORE

On

8.8.2016 at SCE, Bengaluru

PATRONS: G.DAYANAND

(CHAIRMAN)

G.MANOJ

(EXECUTIVE DIRECTOR)

CONVENER: Dr.K.N.RAVI, Prof. And Head

EEE, SCE

FACULTY COORDINATOR Prof. ASHWINI A.

EEE, SCE

Principal

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Phone: 080-28 372800/1/2 Fax: 030-28 372797

### CIRCULAR

The college is organizing seminar on "Innovative Business and Breakthrough technologies" by **Mr. Sunil**, ALS Technologies on 08.08.2016 from 10.30AM to 12PM in Seminar Hall, Faraday Block.

Hence hereby informing all faculties and students to attend the same.

  
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Web: [www.sapthagiri.edu.in](http://www.sapthagiri.edu.in), Email: [principal@sapthagiri.edu.in](mailto:principal@sapthagiri.edu.in)

Phone: 080-28 372800/1, 2-228 Fax: 080-28 372797

## Seminar Report

### *Topic: "Innovative Bussiness and Breakthrough Technologies"*

By

Mr. Sunil S.

General Manager,

Advanced Electronic Systems (AES),

Bangalore

Date: 08.08.2016

Time: 10.30 to 12.30

Venue: Seminar Hall, SCE, Bangalore.

The seminar is an introduction to business law which covers the fundamentals, including contracts, liability, regulation, employment, and corporations with an in-depth treatment of the legal issues relating to breakthrough technologies, including the legal framework of R&D, the commercialization of new high-technology products in start-ups and mature companies, and the liability and regulatory implications of new products and innovative business models. There is extensive attention to national and international intellectual property protection and strategies. Examples were drawn from many industries, including information technology, communications, and life sciences.

  
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## SAPTHAGIRI COLLEGE OF ENGINEERING, BENGALURU.

## DEPARTMENT OF ECE

## Attendance

Date: 08/12/2016

| S.No | Name of the Faculty | Signature     |
|------|---------------------|---------------|
| 1    | Shobha Hegar        | Shobha        |
| 2    | P. Agalya           | P. Agalya     |
| 3    | Shobha S            | Shobha        |
| 4    | Sueha M.S           | Sueha         |
| 5    | Vani A              | Vani A        |
| 6    | Prathibha P         | Prathibha     |
| 7    | Vallum K            | Vallum        |
| 8    | Sangeeta Lize       | Sangeeta      |
| 9    | Suma V Shetty       | Suma V Shetty |
| 10   | SHILPA V.           | Shilpa V.     |
| 11   | Preethi T.S         | Preethi T.S   |
| 12   | Karthick N.C        | Karthick      |
| 13   | Kavi Shankar M.N    | Kavi Shankar  |
| 14   | Vani V              | Vani V        |
| 15   | Sathish Murthy      | Sathish       |
| 16   | Sasmita M.          | Sasmita       |
| 17   | Ramya M             | Ramya         |
| 18   | Divya N.S           | Divya         |
| 19   | Ashwini C           | Ashwini       |
| 20   | Thansi K            | Thansi        |
| 21.  | Shilpa m            | Shilpa        |
| 23.  | mAmaltha A          | mAmaltha      |
| 21.  | Abhishek K.L        | Abhishek      |
| 24.  | Sneha G             | Sneha         |
| 27   | Supriya S           | Supriya       |
| 25   | Bhanya N-P          | Bhanya        |
| 26   | Hindia M-G          | Hindia        |

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**SAPTHAGIRI COLLEGE OF ENGINEERING**  
**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru- 560 057

**ACADEMIC YEAR 2015-2016**

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Date: 06/06/2016

**CIRCULAR**

All the Faculties are hereby informed that there is a Four Days FDP on "Pragmatic Approach to Cloud Computing" from 27/06/2016 to 30/06/2016. All the Faculties are requested to attend the same without fail. Interested Faculties can register their names with Prof. Rajeev Bilagi, Associate Professor, Prof. Ragini Krishna, Assistant Professor.

  
HOD

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

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



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**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**  
 #14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru- 560 057

**ACADEMIC YEAR 2015-2016**

**Four Days Faculty Development Program "Pragmatic Approach to Cloud Computing" in  
 Association with Fulcrum**

| Day-1 27-6-2016                   |              |                                    |  |
|-----------------------------------|--------------|------------------------------------|--|
| 9.00 am to 9.30 am                | Inauguration |                                    |  |
| 9.30 am to 11.00 am               | Session-1    | Introduction and Overview          | Cloud Computing Concepts               |
|                                   |              |                                    | History of Cloud Computing             |
| Tea Break 11.00 am to 11.15 am    |              |                                    |  |
| 11.15 am to 1.00 pm               | Session-2    | Introduction and Overview          | Salesforce Introduction                |
|                                   |              |                                    | Force.com Platform Introduction        |
| Lunch 1.00pm to 1.30 pm           |              |                                    |  |
| 1.30 pm to 3.00 pm                | Session-3    | Designing Application on Force.com | Navigation of the force.com platform   |
| Day 2 28-06-2016                  |              |                                    |  |
| 9.00 am to 10.30 am               | Session-1    | Building your Data                 | Building Your Data Model               |
|                                   |              |                                    | Custom Objects                         |
|                                   |              |                                    | Create Custom Objects                  |
|                                   |              |                                    | Custom Fields                          |
|                                   |              |                                    | Create Custom Fields                   |
| Tea Break (10.30 am to 10.45 am ) |              |                                    |  |
| 10.45 am to 12.45 pm              | Session-2    | Building Your User Interface       | Create Lookup Relationships            |
|                                   |              |                                    | Create Master-Detail Relationships     |
|                                   |              |                                    | Create a Custom Junction Object        |
|                                   |              |                                    | Create a Lookup Filter                 |
|                                   |              |                                    | Schema Builder                         |
| Lunch 12.45 pm to 1.30 pm         |              |                                    |  |
| 1.30 pm to 3.00 pm                | Session-3    | Building Your User Interface       | Building Your User Interface           |
|                                   |              |                                    | Custom Application                     |
|                                   |              |                                    | Custom Tabs                            |
|                                   |              |                                    | Create Tabs                            |
|                                   |              |                                    | Create Custom Tabs                     |
| Tea Break (3.00 pm to 3.15 pm)    |              |                                    |  |
| 3.15 pm to 4.45 pm                | Session-4    | Building Your User Interface       | Customize Page Layouts                 |
|                                   |              |                                    | Chatter Feed Tracking                  |
|                                   |              |                                    | Enable Chatter on the Positions Object |

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|                                   |           |   |  |
|-----------------------------------|-----------|---|--|
|                                   |           |   | Salesforce Mobile Application                        |
|                                   |           |   | Navigate the Salesforce Mobile Application           |
| Day 3 29-06-2016                  |           |   |  |
| 9.00 am to 10.30 am               | Session-1 | Building Your Business Logic                                | Formula Fields                                       |
|                                   |           |   | Create Formula Fields                                |
|                                   |           |   | Create Cross-Object Formulas                         |
|                                   |           |   | Roll-Up Summary Fields                               |
|                                   |           |   | Create Roll-Up Summary Fields                        |
| Tea Break (10.30 am to 10.45 am ) |           |   |  |
| 10.45 am to 12.45 pm              | Session-2 | App Development   | Creating and Managing Multi-User App                 |
| Lunch 12.45 pm to 1.30 pm         |           |   |  |
| 1.30 pm to 3.00 pm                | Session-3 | Controlling Access to Record                                | Overview of Record Access                            |
|                                   |           |   | Create Custom Object Queues                          |
|                                   |           |   | Organization Wide Defaults                           |
| Tea Break (3.00 pm to 3.15 pm)    |           |   |  |
| 3.15 pm to 4.45 pm                | Session-4 | Implementing Business Processes Design Data Access Security | Design Data Access Security                          |
| Day 4 30-06-2016                  |           |   |  |
| 9.00 am to 11.30 am               | Session-1 | Project 1   | Building a Cloud App using all the techniques learnt |
| Tea Break 11.30 am to 11.40 am    |           |   |  |
| 11.45 am to 1.30 pm               | Session-2 | Research Avenues in Cloud Computing                         | Areas for research open house discussion             |
| Lunch Break 1.30 pm to 2.00 pm    |           |   |  |
| 2.00 pm to 3.45 pm                | Session-3 | Overview of Advanced Topics                                 | Roadmap for Certification with Salesforce            |
| Tea Break 3.45 pm to 4.00 pm      |           |   |  |
| 4.00 pm to 4.30 pm                | Session-4 | Valedictory Function  | Handout Course Completion Certificate                |

  
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**Sapthagiri College of Engineering**  
**Department of Computer Science & Engineering**

**Four Days Faculty Development Program "Pragmatic Approach to Cloud Computing" in Association with Fulcrum**

**Attendance Sheet**

| Sl No | Name of Participant      | Dates      |           |            |           |            |           |            |           |
|-------|--------------------------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|
|       |                          | 27-06-2016 |           | 28-06-2016 |           | 29-06-2016 |           | 30-06-2016 |           |
|       |                          | MS         | AS        | MS         | AS        | MS         | AS        | MS         | AS        |
| 1.    | Dr. Prashanth. C.M       |            |           |            |           |            |           |            |           |
| 2.    | Prof. Kamalakshi Naganna |            |           | 1-1/2 hr   | 1-1/2 hr  | 1-1/2 hr   | 1-1/2 hr  |            |           |
| 3.    | Mr. Rajeev Bilagi        |            |           |            |           |            |           |            |           |
| 4.    | Mrs. Ragini Krishna      |            |           |            |           |            |           |            |           |
| 5.    | Mrs. Ancy Thomas         | Ancy       | Ancy      | Ancy       | Ancy      | Ancy       |           |            |           |
| 6.    | Mrs. Latha. A            |            |           |            |           |            |           |            |           |
| 7.    | Mrs. Roopa Banakar       |            |           |            |           |            |           |            |           |
| 8.    | Mrs. Poornima G.J        |            |           |            |           |            |           |            |           |
| 9.    | Ms. Sushmitha. J         |            |           |            |           |            |           |            |           |
| 10.   | Mrs. Madhu Shree         |            |           |            |           |            |           |            |           |
| 11.   | Mrs. Sheetal Raj         |            |           |            |           |            |           |            |           |
| 12.   | Ms. Veena K.R            |            |           |            |           |            |           |            |           |
| 13.   | Mr. Vikas B.O            |            |           |            |           |            |           |            |           |
| 14.   | Mrs. Anuradha Badagi     |            |           |            |           |            |           |            |           |
| 15.   | Mrs. Kavitha G           |            |           |            |           |            |           |            |           |
| 16.   | Mr. Anoop N Prasad       |            |           |            |           |            |           |            |           |
| 17.   | Mr. Chethan M            |            |           |            |           |            |           |            |           |
| 18.   | ASHWINI M                | Ashwini M  | Ashwini M | Ashwini M  | Ashwini M | Ashwini M  | Ashwini M | Ashwini M  | Ashwini M |
| 19.   | Bhargavi K V             | Bhargavi   | Bhargavi  | Bhargavi   | Bhargavi  | Bhargavi   | Bhargavi  | Bhargavi   | Bhargavi  |
| 20.   | Hemalatha K              | Hemalatha  | Hemalatha | Hemalatha  | Hemalatha | Hemalatha  | Hemalatha | Hemalatha  | Hemalatha |
| 21.   | Kiran M S                | Kiran M S  | Kiran M S | Kiran M S  | Kiran M S | Kiran M S  | Kiran M S | Kiran M S  | Kiran M S |
| 22.   | Manjunatha B S           |            |           |            |           |            |           |            |           |
| 23.   | Patil Jayshree Dilip     | Patil      | Patil     | Patil      | Patil     | Patil      | Patil     | Patil      | Patil     |



|     |                          |                      |                      |                      |                      |                      |                      |                      |                    |
|-----|--------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|--------------------|
| 24. | Prarthana H R            | <del>Prarthana</del> | <del>Prarthana</del> | <del>Prarthana</del> | <del>Prarthana</del> | <del>Prarthana</del> | <del>Prarthana</del> | <del>Prarthana</del> |                    |
| 25. | Ramya S (Shivaji Rao)    | <del>Ramya</del>     | <del>Ramya</del>     | <del>Ramya</del>     | <del>Ramya</del>     | <del>Ramya</del>     | <del>Ramya</del>     | <del>Ramya</del>     |                    |
| 26. | Ramya S (Shivanna)       | <del>Ramya</del>     | <del>Ramya</del>     | <del>Ramya</del>     | <del>Ramya</del>     | <del>Ramya</del>     | <del>Ramya</del>     | <del>Ramya</del>     |                    |
| 27. | Sandeep B S              | <del>Sandeep</del>   | <del>Sandeep</del>   | <del>Sandeep</del>   | <del>Sandeep</del>   | <del>Sandeep</del>   | <del>Sandeep</del>   | <del>Sandeep</del>   | <del>Sandeep</del> |
| 28. | Shilpa R                 | <del>Shilpa</del>    | <del>Shilpa</del>    | <del>Shilpa</del>    | <del>Shilpa</del>    | <del>Shilpa</del>    | <del>Shilpa</del>    | <del>Shilpa</del>    |                    |
| 29. | Prof Chithra B Chaitra B | <del>Chithra</del>   | <del>Chithra</del>   | <del>Chithra</del>   | <del>Chithra</del>   | <del>Chithra</del>   | <del>Chithra</del>   | <del>Chithra</del>   |                    |
| 30. | Prof Mithuna H.R         | <del>Mithuna</del>   | <del>Mithuna</del>   | <del>Mithuna</del>   | <del>Mithuna</del>   | <del>Mithuna</del>   | <del>Mithuna</del>   | <del>Mithuna</del>   |                    |
| 31. | Prof Prkruthi            | <del>Prkruthi</del>  | <del>Prkruthi</del>  | <del>Prkruthi</del>  | <del>Prkruthi</del>  | <del>Prkruthi</del>  | <del>Prkruthi</del>  | <del>Prkruthi</del>  |                    |
|     |                          |                      |                      |                      |                      |                      |                      |                      |                    |
|     |                          |                      |                      |                      |                      |                      |                      |                      |                    |
|     |                          |                      |                      |                      |                      |                      |                      |                      |                    |
|     |                          |                      |                      |                      |                      |                      |                      |                      |                    |
|     |                          |                      |                      |                      |                      |                      |                      |                      |                    |

Signature of the HOD

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



## Registration Details

Name: \_\_\_\_\_

Designation: \_\_\_\_\_

Qualification: \_\_\_\_\_

Experience (In Years) Teaching: \_\_\_\_\_

Industry: \_\_\_\_\_

Address for communication: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Phone Office: \_\_\_\_\_

Mobile: \_\_\_\_\_

E-mail: \_\_\_\_\_

Demand draft may be sent in favor of "THE PRINCIPAL, SCE" payable at Bangalore

Signature of Participant

Signature of the Head of the Organization/ Department/ Institute With Seal

## Chief Patrons:

Sri Dayanand G.  
Chairman  
Sri Srinivasa Educational & Charitable Trust

Sri C D Manoj  
Executive Director  
Sri Srinivasa Educational & Charitable Trust

## Patrons:

Dr. Srinivasan N. Director, SCE  
Dr. M. Aswatha Kumar Principal, SCE

## Convener:

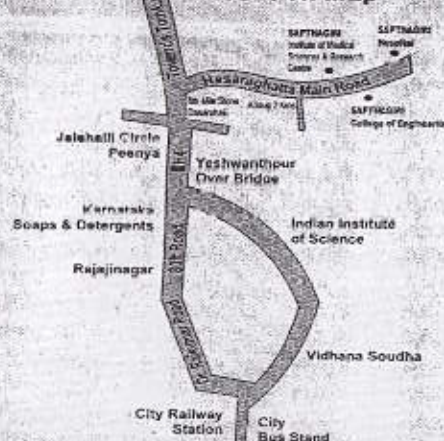
Dr. C M Prashanth  
Professor & Head

## Co-ordinators

Mr. Rajeev Bilagi  
Associate Professor  
Mob No. : 9900919132

Mrs. Ragini Krishna  
Assistant Professor  
Mob No. : 9739012812

## Location Map



SAPTHAGIRI COLLEGE OF ENGINEERING

Four Days Faculty  
Development Programme

on

**"Pragmatic Approach  
to Cloud Computing"**

27, 28, 29 & 30<sup>th</sup> June 2016



## Organized by:

Department of Computer Science & Engineering  
**SAPTHAGIRI COLLEGE OF ENGINEERING**

(Recognized by AICTE, New Delhi & Affiliated to VTU, Belgaum)

#14/5, Chikkasandra, Hesarghatta Main Road  
Bangalore-560057, Phone No. 080-28372801/221  
Fax: 28372797, www.sapthagiri.edu.in

## in Association with:

**Fulcrum Edu, Bangalore**

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

Principal

Principal  
Sapthagiri College of Engineering



**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**  
**SAPTHAGIRI COLLEGE OF ENGINEERING**

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi.)  
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru- 560 057.

**ACADEMIC YEAR 2015-2016**

**REPORT ON**


**Four days FDP on “Pragmatic Approach to Cloud Computing” on 27<sup>th</sup> June 2016 to 30<sup>th</sup> June 2016**

This FDP will elevate overall knowledge of the revolutionary new technology of cloud computing to the teaching community by giving them in depth understanding of most popular cloud platform and hands on expertise. This FDP also provides the cloud computing concepts, architecture, applications, enterprise scenario, security, network services and various models of cloud technology (Saas, laas and PaaS). This also provides the skills to build an application on cloud.

The technical session was very helpful in enhancing the technical knowledge amongst the faculty members. Overall the faculties felt that the session was very Informative and gain Knowledge about the Cloud Computing and its applications



Chief Guest and other Dignitaries in FDP Inaugural Function

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



# SAPTHAGIRI COLLEGE OF ENGINEERING

#14/5, HESARAGHATTA MAIN ROAD, BENGALURU - 560057

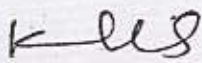
## Certificate of Participation


This is to certify that

Mr./Ms.

Prof. Sushmita J

Successfully participated in the Faculty Development Program on "Pragmatic approach to Cloud Computing" from 27/06/2016 to 30/06/2016 organized by Department of Computer Science & Engineering, Sapthagiri College of Engineering, Bengaluru-560057.

  
HOD  
Professor & Head of the Department  
of Computer Science & Engineering

  
PRINCIPAL

Principal  
Sapthagiri College of Engineering  
Capt. Chikrasandra, Hesaraghatta Road,  
Chikkasandra, Bengaluru-560057



**Date: 27/06/2016**

**Meeting Circular**

A meeting is schedule on 28/06/2016 at 1:00 PM in Department of Biotechnology. This meeting will be a discussion regarding FDP.

*Ananda S.*

**HOD**

**Head of the Department**  
Dept. of Biotechnology  
Sapthagiri College of Engineering  
No. 57/1, Chikkasandra  
Hesaraghatta Main Road  
Copy To, Bangalore -57

1. HOD of Physics *[Signature]*

2. HOD of Chemistry *[Signature]*

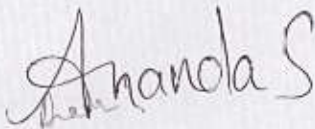
*[Signature]*  
**Principal**  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore-560 057



Date: 9-7-2016

**Circular**

Faculties of Department of Biotechnology and Department of Basic science are hereby informed to attend five days faculty development programme titled as **Synthesis and development of Metal oxide nanoparticle** from 12-7-2016 to 16-1-2016. All the Faculty register their names with Faculty Coordinator Prof. Shobha G, Dept of BT.





**HOD**

**Biotechnology**

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

**Copy To,**

1. HOD of Physics 

2. HOD of Chemistry 



**Principal**

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





**Sapthagiri College of Engineering**  
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#14/5, Chikkasandra, Hesarahatta Main Road, Bengaluru - 560057

**DEPARTMENT OF BIOTECHNOLOGY  
AND  
DEPARTMENT OF BASIC SCIENCE**  
***Five days Faculty Development Programme***  
On

**"Synthesis and development of Metal oxide Nanoparticle"**  
12-7-2016 to 16-7-2016

**SCHEDULE**

| Time<br>date/day     | 9.30 am-11.00 am   | 11.30 am-1:00pm   | 2:00-3:00pm   | 3:30-<br>4:30pm |
|----------------------|--|---|---|-----------------|
| 12-7-16<br>Tuesday   | ZnS semiconductor<br>quantum dots production<br>by an endophytic fungus<br><i>Aspergillus flavus</i><br><b>Dr. B.Rajmohan</b><br>NIT, Suralkal | Bio- composite electrode for<br>effective removal of chromium (vi)<br>via capacitive deionization<br><b>Dr. Alwin Ebinesar</b><br>NIT, Suratkal | <b>Lab Session</b><br>Biological Synthesis Of Nanoparticles                             |                 |
| 13-7-16<br>Wednesday | Development of Nano-<br>science on tissue culture<br><b>Dr. Shilpa shivaShankar</b>  | Development of Metal oxide<br>nanoparticles to enhance heat<br>transfer rate in heat exchanger.<br><b>Dr. Sunitha</b><br>AIT, Bengaluru.        | <b>Lab Session</b><br>Chemical Synthesis Of Nanoparticles                               |                 |
| 14-7-16<br>Thursday  | Nano Drug delivery<br>systems<br><b>Sri. Rajeshkaran</b><br>Research scholar, IISc   | Antimicrobial activity by using<br>grapheme oxide nanoparticles.<br><b>Prof. Roopa KP</b>   | <b>Lab Session</b><br>Preparation of Synthesized Nanoparticle<br>sample for SEM studies |                 |
| 15-7-16<br>Friday    | Skanda life science - Industrial visit   |   |   |                 |
| 16-7-16<br>Saturday  | Valedictory Function<br><b>Dr. Yogish, Director, Skanda life science</b>   |   |   |                 |

11:00AM-11:30AM- Tea Break, 1:00PM-2:00PM-Lunch Break, 3:00PM-3:30PM- Tea Break

**Principal**  
**Sapthagiri College of Engineering**  
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Bangalore- 560 057

**Ananda S**  
Head of the Department  
Dept. of Bio -Technology  
Sapthagiri College of Engineering  
No. 57/1, Chikkasandra  
Hesarahatta Main Road  
Bangalore -57



Registration Form  
*Faculty Development  
Programme*

*Synthesis And Development  
Of  
Metal Oxide Nanoparticle*

12<sup>th</sup> July to 16<sup>th</sup> July 2016

Tuesday-Saturday

*Participant Details*

Name : \_\_\_\_\_

Dept : \_\_\_\_\_

College : \_\_\_\_\_

Mobile : \_\_\_\_\_

Email ID : \_\_\_\_\_

Signature of the Participant

PATRONS

Sri. G Dayanand  
Chairman, SCE

Sri. G D Manoj  
Executive Director, SCE

Dr. Ashwath Kumar M  
Principal, SCE

ORGANISERS

Dr. Ananda S  
HOD, BT

Dr. Krishna B S  
HOD, Chemistry

Dr. Jagadeesh Gowda  
HOD, Physics

Co-ordinator

Prof. Shobha G  
AP, Dept of BT

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

SAPTHAGIRI COLLEGE  
OF ENGINEERING

Affiliated to VTU, Belagavi



*Five Day Faculty  
Development Programme*

*Synthesis And  
Development  
Of Metal  
Oxide  
Nanoparticle*

DEPARTMENT OF BIO-TECHNOLOGY  
AND  
DEPARTMENT OF BASIC SCIENCES





**ATTENDANCE LIST**

**Event Name: Synthesis and development of Metal oxide nanoparticle**

**Date: 12-7-2016 to 16-7-2016**

| Sl. No | Faculty Name       | DAY-1 |    | DAY-2 |    | DAY-3 |    | DAY-4 |    | DAY-5 |    |
|--------|--------------------|-------|----|-------|----|-------|----|-------|----|-------|----|
|        |                    | MS    | AS | MS    | AS | MS    | AS | MS    | AS | MS    | AS |
| 1      | Dr. Rohit KC       | ✓     | ✓  | ✓     | ✓  | ✓     | ✓  | ✓     | ✓  | ✓     | ✓  |
| 2      | Prashanth Kumar HP | ✓     | ✓  | ✓     | ✓  | ✓     | ✓  | ✓     | ✓  | ✓     | ✓  |
| 3      | Soumya C           | ✓     | ✓  | ✓     | ✓  | ✓     | ✓  | ✓     | ✓  | ✓     | ✓  |
| 4      | Kavya MV           | ✓     | ✓  | ✓     | ✓  | ✓     | ✓  | ✓     | ✓  | ✓     | ✓  |
| 5      | Shobha G           | ✓     | ✓  | ✓     | ✓  | ✓     | ✓  | ✓     | ✓  | ✓     | ✓  |
| 6      | Blenny Baby Matha. | ✓     | ✓  | ✓     | ✓  | ✓     | ✓  | ✓     | ✓  | ✓     | ✓  |
| 7      | Ananda H.V         | ✓     | ✓  | ✓     | ✓  | ✓     | ✓  | ✓     | ✓  | ✓     | ✓  |
| 8      | Salanya D          | ✓     | ✓  | ✓     | ✓  | ✓     | ✓  | ✓     | ✓  | ✓     | ✓  |
| 9      | Vinutha Moses      | ✓     | ✓  | ✓     | ✓  | ✓     | ✓  | ✓     | ✓  | ✓     | ✓  |
|        |                    |       |    |       |    |       |    |       |    |       |    |
|        |                    |       |    |       |    |       |    |       |    |       |    |
|        |                    |       |    |       |    |       |    |       |    |       |    |
|        |                    |       |    |       |    |       |    |       |    |       |    |
|        |                    |       |    |       |    |       |    |       |    |       |    |

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

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









Event Name: Synthesis and development of Metal oxide nanoparticle  
Date: 12-7-2016 to 16-7-2016

[illegible]

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Bangalore-560 057

Ananda S  
Head of the Department  
Dept. of Bio - Technology  
Sapthagiri College of Engineering  
No. 57/1, Chikkasandra  
Hesaraghatta Main Road  
Bangalore -57



## Report of FDP Programme

### "Synthesis and development of Metal oxide nanoparticle"

The Department of Biotechnology and Basics Science jointly organized the FDP programme on Synthesis and development of Metal oxide nano-particle for Environmental issues, Power Generation, Medicinal applications and antimicrobial activity for 5 days from 12-07-2016 to 16-07-2016.

The science and technology on synthesis and application of nanoparticles in several disciplines is day by day increasing in this scientific world due to its higher surface to volume ratio, less dielectric strength, higher stability, higher thermal stability and it has high anti-microbial activity. The nano-particles are mainly used to degrade any kind of pollutant emerged in the liquid effluent with the help of light source. In addition to that, the nano-particles can be used to generate the electricity with the help of developing solar cells.

#### Objectives of Programme

1. Synthesis and development of Metal oxide nano-particle for Environmental issues.
2. Semiconductor quantum dots production by an endophytic fungus *Aspergillus flavus*.
3. Synthesis of Nano-particles for drug delivery
4. Synthesis of Nano-particles for Anti-microbial activity.

#### Summary of Event

The FDP program was initiated by **Dr. B.Rajmohan**, NITK, Professor, Department of Chemical Engineering on topic ZnS semiconductor quantum dots production by an endophytic fungus *Aspergillus flavus* and the day end up by the talk followed by lectures from different speaker, lab session and company visit Skanada life science private limited in five days programme. **Dr. Shilpa**, Assistant professor from Acharya college of engineering delivered a talk on development of nano-science on tissue culturing. The speaker explained the importance of microwell reactors for the development of organs by using tissue culturing. **Prof Roopa KP** from Sapthagiri delivered their talk on antimicrobial activity by using graphene oxide nanoparticles. Eventually, The FDP programme ended after talk given by **Dr. Yogish MMBS**, MPH, Ph.D, Director and founder of Skanda life science.



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### Report of FDP Programme

#### "Synthesis and development of Metal oxide nanoparticle"



Lectures delivered and visit to company During FDP Programme



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



Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore-560057





# Sapthagiri College of Engineering

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

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

Department of Biotechnology and Department of Basic Sciences

Faculty Development Programme

on

“Synthesis and Development of Metal Oxide Nanoparticle”


## CERTIFICATE OF PARTICIPATION

This is to certify that Dr/Mr/Ms/Mrs. Vinutha Moses of

Sapthagiri College of Engineering has successfully participated in the 5 days Faculty

Development Program held at Sapthagiri College of Engineering, Bengaluru, on 12<sup>th</sup> to 16<sup>th</sup> July 2016.

  
CO-ORDINATOR

  
Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore-560057

  
CONVENER

  
PRINCIPAL





DEPARTMENT OF CIVIL ENGINEERING

**SAPTHAGIRI COLLEGE OF ENGINEERING**

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

#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru - 560 057.

Phone: 080-28 372800/1/2

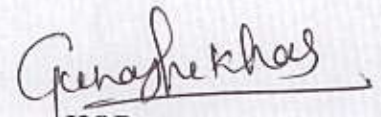
Fax: 080-28 372797

**ACADEMIC YEAR 2016-2017**

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**CIRCULAR**

Faculties are hereby informed that the department is conducting a faculty development programme titled as 'ALTERNATE BUILDING MATERIALS' for five days from 12<sup>TH</sup> JULY 2016 TO 16<sup>TH</sup> JULY 2016. Interested faculties can register their names with Prof.

  
HOD

Dept. of civil

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





DEPARTMENT OF CIVIL ENGINEERING

SAPTHAGIRI COLLEGE OF ENGINEERING

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Phone: 080-28 372800/1/2

Fax: 080-28 372797

ACADEMIC YEAR 2016-2017

Minutes of Meeting

A meeting of all the faculties was held on 03/07/2016 at HOD's office, Department of civil, Sapthagiri College Engineering.

Prof. Krupa T L, Associate Professor & Head chaired the meeting and greeted all faculty.

In the meeting the syllabus, schedule and budget of five days faculty development programme on ALTERNATIVE BUILDING MATERIALS

Detailed Syllabus & Schedule

DAY 1 - Introduction

Date: 12/07/2016

| Time                       | Topics   |
|----------------------------|--|
| 08:30 am<br>To<br>10:15 am |  |
| Tea Break                  |  |
| 10:30 am<br>To<br>12:30 pm | Energy in building materials 2. Environmental issues concerned to building materials |
| Lunch Break                |  |
| 01:30 pm<br>To<br>03:00 pm | Global warming and construction industry   |
| Tea Break                  |  |
| 03:15 pm<br>To<br>04:00 pm | Environmental friendly and cost effective building technologies.                     |

DAY 2 -

Date: 13/07/2016

| Time                       | Topics  |
|----------------------------|---|
| 08:30 am<br>To<br>10:15 am | Requirements for building of different climatic regions.  |
| 10:30 am<br>To<br>12:30 pm | Traditional building methods and vernacular architecture.   |
| 01:30 pm<br>To<br>03:00 pm | Characteristics of building blocks for walls, Stones and Laterite blocks  |
| 03:15 pm<br>To             | Bricks and hollow clay blocks, Concrete blocks 5. Stabilized blocks : mud blocks, steam cured blocks, Fal-G Blocks stone masonry block. |

Principal

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





# DEPARTMENT OF CIVIL ENGINEERING

## SAPTHAGIRI COLLEGE OF ENGINEERING

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi.)  
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru- 560 057.

Phone: 080-28 372800/1/2

Fax: 080-28 372797

ACADEMIC YEAR 2016-2017

04:00 pm

### DAY 3 -

Date: 14/07/2016

| Time                       | Topics   |
|----------------------------|--|
| 08:30 am<br>To<br>10:15 am | Raw materials, Manufacturing process, Properties and uses  |
| Tea Break                  |  |
| 10:30 am<br>To<br>12:30 pm | Fibre reinforced concretes, Matrix materials, Fibers: metal and synthetic, Properties and applications |
| Lunch Break                |  |
| 01:30 pm<br>To<br>03:00 pm | Properties and applications, Building materials from agro and industrial wastes                        |
| Tea Break                  |  |
| 03:15 pm<br>To<br>04:15 pm | Types of agro wastes, Types of industrial and mine wastes  |

### DAY 4 -

Date: 15/07/2016

| Time                       | Topics  |
|----------------------------|---|
| 08:30 am<br>To<br>10:15 am | Properties and applications, Field quality control test methods                   |
| Tea Break                  |   |
| 10:30 am<br>To<br>12:30 pm | Alternative for wall construction, Types, Construction method                     |
| Lunch Break                |   |
| 01:30 pm<br>To<br>03:00 pm | Types, Preparation, Properties, Ferrocement and ferroconcrete building components |
| Tea Break                  |   |
| 03:15 pm<br>To<br>04:15 pm | Materials and specifications, Properties, Construction methods, Applications      |

### DAY 5 -

Date: 16/07/2016

| Time                       | Topics   |
|----------------------------|--|
| 08:30 am<br>To<br>10:15 am | Composite beam panel roofs, Masonry vaults and domes, Compressive strength of masonry elements |

Principal

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DEPARTMENT OF CIVIL ENGINEERING

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Phone: 080-28 372800/1/2

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**ACADEMIC YEAR 2016-2017**

| Tea Break                  |  |
|----------------------------|--|
| 10:30 am<br>To<br>12:30 pm | Factors affecting compressive strength, Strength of units, prisms / wallettes and walls, Effect of brick work bond on strength, Bond strength of masonry |
| Lunch Break                |  |
| 01:30 pm<br>To<br>03:00 pm | IS Code provisions, Design of masonry compression elements, Concepts in lateral load resistance  |
| Tea Break                  |  |
| 03:15 pm<br>To<br>04:15 pm | VALEDICTORY FUNCTION   |

Principal

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



## About the College

Sapthagiri Group of Institutions is the creation of Sri Srinivasa Educational & Charitable trust, Bengaluru. Sapthagiri College of Engineering is the brainchild of honorable Sri Late Giriappa, Founder Chairman and Sri. G. Dayanand, Chairman of Sri Srinivasa Educational & Charitable trust. Sri G.D. Manoj, is the Executive Director of SCE. SCE began its glorious journey in the year 2001. It is approved and accredited by AICTE, New Delhi and is affiliated to VTU Belagavi, Karanataka. The campus of Sapthagiri College of Engineering is spread across 6.5 acres of lush green land with beautiful landscape. The area enjoys pleasant atmosphere throughout the year.



## Vision

To be a best institution imparting quality engineering education to deal with community needs through learning and performance.

## Mission

To implement path breaking student centric education methods. - To augment talent, nurture teamwork to transform to develop individual as responsible citizen. -To educate the students and faculties about entrepreneurship to meet vibrant requirements of the society. -Strengthen Industry-Institute Interaction for knowledge sharing.

## Chief Patrons

**Sri. G. Dayanand,**  
Chairman, Sri.Srinivasa Educational & Charitable Trust,  
Sapthagiri Group of Institutions, Bengaluru

**Sri. G.D. Balaji,**  
Executive Director, Sri. Srinivasa Educational  
& Charitable Trust, Sapthagiri Group of Institutions

**Sri. G.D. Manoj,**  
Executive Director, Sri. Srinivasa Educational  
& Charitable T. Sapthagiri Group of Institutions

## Patrons

**Dr.K N Ravi**  
Principal, SCE, Bengaluru  
Convener

Dr. T K Gunashekar  
Prof.& HOD,Dept. of C&V, SCE, Bengaluru

## FDP Coordinator

Mrs.Krupa T L  
Asst.Professor, SCE, Bengaluru

## Faculty Development Programme

On

**Alternate Building Materials**

On

**12<sup>th</sup> -16<sup>th</sup> July 2016**

**Organized by**

**Sapthagiri College of Engineering**

**Department of Civil Engineering**


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

Phone: 080-28372800/01/02/03



## About the Course:

- Overview of Alternate building materials
- Environmental issue concerned to building materials.
- Global warming and construction industry
- Requirements for building of different climatic region.
- Traditional; and alternative building materials
- Properties and application of materials
- Alternative for wall construction
- Composite materials
- Factors affecting on composite materials

  
Principal  
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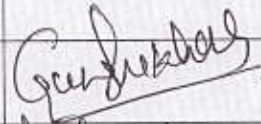
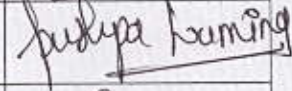


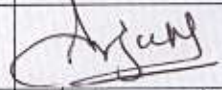
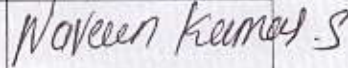
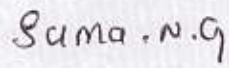
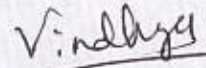
**ACADEMIC YEAR 2016-2017**

**FACULTY DEVELOPMENT PROGRAMME**

**ON**

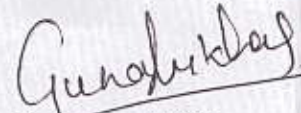
**Analysis of indeterminate structures**

**Faculty Attendance**

| Sl No. | Faculty Name           | Designation         | Signature   |
|--------|------------------------|---------------------|---|
| 1      | Dr. T K Gunashekar     | HOD                 |    |
| 2      | Prof. Pushpa Lumina    | Assistant professor |    |
| 3      | Prof. Vindhya R G      | Assistant professor |   |
| 4      | Prof. Krupa T L        | Assistant professor |  |
| 5      | Prof. Arjun C Haktoor  | Assistant professor |  |
| 6      | Prof. Naveen Kumar S   | Assistant professor |  |
| 7      | Prof. Suma.N.G         | Assistant professor |  |
| 8      | Prof. Vindhya Bhagavan | Assistant professor |  |

  
Signature of coordinator

  
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14/5, Chikkasandra, Hesaraghatta Main Road  
Bengaluru - 560 057

  
Signature of HOD



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Phone: 080-28 372800/1/2

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**ACADEMIC YEAR 2016-2017**

**REPORT ON ALTERNATE BUILDING MATERIALS**

Aiming to provide an intense training on stability of structures for our civil engineering faculties, Sapthagiri College of Engineering held during from 12<sup>th</sup> July 2016 to 16<sup>th</sup> July 2016. Overall the faculties felt that the session was informative & gain knowledge about ALTERNATE BUILDING MATERIALS.

This programme provided a platform for the lecturers and research scholars to know the various recent aspects of alternative construction materials and methods in Civil Engineering. Participants will be enlightened about the application of the alternative construction materials, Techniques to improve the properties of Concrete and other Construction materials. Espouse eco-friendly constructions Improving the quality of construction with reduction in cost. Alternative materials in pavement engineering.



  
HOD

  
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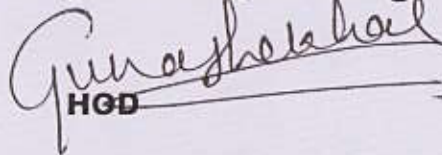
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## Certificate

*This is to Certify that Mf./Mrs. Vindhya Bhagavan of has participated and successfully completed Five days Workshop on "Alternative Building Materials" from 12<sup>th</sup> July to 16<sup>th</sup> July 2016 organized by the Civil Engineering Department, Sapthagiri*

**College of Engineering,**

  
HOD

**Dept. of CIVIL**

  
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Web: [www.sapthagiri.edu.in](http://www.sapthagiri.edu.in), Email: [principal@sapthagiri.edu.in](mailto:principal@sapthagiri.edu.in)

Phone: 080-28 372800/1/2

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ACADEMIC YEAR 2016-2017

Date: 05/07/2016

### CIRCULAR

Department of Electronics and Communication Engineering is conducting a five days faculty development programme on **Computer Networking using NS2** for the technical developments of the faculty from

12<sup>th</sup> July 2016 to 16<sup>th</sup> July 2016. All the faculty can register their names with Prof. Varshini.K and Prof.


Pratibha.P



HOD

Department of ECE

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



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ACADEMIC YEAR 2016-2017

### Minutes of Meeting

A meeting of all the faculty was held on 02/07/2016 at HOD's office. Department of ECE, Sapthagiri College of Engineering.

#### Agenda:

- In the meeting the syllabus, schedule of five days faculty development programme on **Computer Networking using NS2** to faculty members was discussed and approved by the HOD.

Programme schedule:

#### Detailed Syllabus & Schedule

##### DAY 1 - Basics of NS2

Date: 12/07/2016

| Time                       | Topics  |
|----------------------------|---|
| 08:30 am<br>To<br>10:15 am | Computer Networks and Layering Concepts   |
| Tea Break                  |   |
| 10:30 am<br>To<br>12:30 pm | About NS2 and NAM, OTcl and C++ interfaces, Trace files and formats, Protocol support for NS2<br>Simulation object, Basic Syntax, Node creation, Finish procedure, Running NS2 and NAM, Invoking external commands within NS2 |
| Lunch Break                |   |
| 01:30 pm<br>To<br>03:00 pm | Purpose and Installation  |
| Tea Break                  |   |
| 03:15 pm<br>To<br>04:00 pm | Background and architecture   |

##### DAY 2 - Introduction to Network Simulator 2 (NS2)

Date: 13/07/2016

| Time           | Topics   |
|----------------|--|
| 08:30 am<br>To | OTcl and C++ interfaces, Trace files and formats, Protocol support for NS2 |

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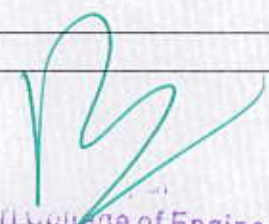
### ACADEMIC YEAR 2016-2017

|                            |   |
|----------------------------|---|
| 10:15 am                   | Simulation object, Basic Syntax, Node creation, |
| 10:30 am<br>To<br>12:30 pm | Finish procedure, Running NS2 and NAM,          |
| 01:30 pm<br>To<br>03:00 pm | Invoking external commands within NS2           |
| 03:15 pm<br>To<br>04:00 pm | Nodes & Agents, Working of NS2 commands,        |

### DAY 3 – Implementation of Discrete-Event Simulation in NS2

Date: 14/07/2016

| Time                       | Topics                                  |
|----------------------------|---|
| 08:30 am<br>To<br>10:15 am | Wired and Wireless scenarios,           |
| <b>Tea Break</b>           |   |
| 10:30 am<br>To<br>12:30 pm | Routing protocols in wireless scenarios |
| <b>Lunch Break</b>         |   |
| 01:30 pm<br>To<br>03:00 pm | Wired networks- Creating links          |
| <b>Tea Break</b>           |   |
| 03:15 pm<br>To<br>04:15 pm | Sending traffic through NS2 links       |

  
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### ACADEMIC YEAR 2016-2017

|    |  |
|----|--|
| pm |  |
|----|--|

#### DAY 4 - Network Objects


Date: 15/07/2016

| Time                       | Topics   |
|----------------------------|--|
| 08:30 am<br>To<br>10:15 am | Setting link parameters, Routing protocol support, Scenarios |
| <b>Tea Break</b>           |  |
| 10:30 am<br>To<br>12:30 pm | Wireless networks - Additional parameters,                   |
| <b>Lunch Break</b>         |  |
| 01:30 pm<br>To<br>03:00 pm | Setting node positions                                       |
| <b>Tea Break</b>           |  |
| 03:15 pm<br>To<br>04:15 pm | GOD object and Topography, Protocol support, Scenarios       |

#### DAY 5 - Nodes as Routers or Computer Hosts

Date: 16/07/2016

| Time                       | Topics   |
|----------------------------|--|
| 08:30 am<br>To<br>10:15 am | <u>Analyzing traces</u> – Back to traces, Print values to console and files using AWK, |
| <b>Tea Break</b>           |  |
| 10:30 am<br>To<br>12:30 pm | Analyzing parameters in each trace entry, Xgraph parameters                            |

  
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### ACADEMIC YEAR 2016-2017

| Lunch Break                |  |
|----------------------------|--|
| 01:30 pm<br>To<br>03:00 pm | AWK and Xgraph Invoking AWK scripts,                                     |
| Tea Break                  |  |
| 03:15 pm<br>To<br>04:00 pm | Setting values for Xgraph, Invoking Xgraph, Additional Xgraph parameters |

The following members were present in the meeting and the syllabus and lesson plan for the faculty development programme has been decided.

| Sl No. | Faculty Name             | Designation         | Signature |
|--------|--------------------------|---------------------|-----------|
| 1.     | Prof. Agalya P.          | Associate Professor |           |
| 2.     | Prof. Shobha S.          | Associate Professor |           |
| 3.     | Prof. Ravishankara M. N. | Associate Professor |           |
| 4.     | Prof. Shobha I Hugar     | Assistant Professor |           |
| 5.     | Dr. Dinesh K. Anvekar    | Guest Speaker       |           |

  
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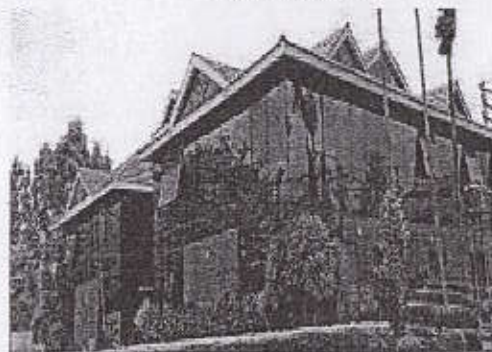




5 Days FDP  
on

**"Computer Networking using NS2"**  
12<sup>th</sup> July 2016 to 16<sup>th</sup> July 2016

**Organized by**  
**Department of**  
**Electronics & Communication**  
**Engineering**



**Sapthagiri College of**  
**Engineering**

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

Phone: 080-28372800/01/02/03

### About the College

Sapthagiri Group of Institutions is the creation of Sri Srinivasa Educational & Charitable trust, Bengaluru. Sapthagiri College of Engineering is the brainchild of honorable Sri Giriappa, Founder Chairman and Sri. G. Dayanand, Chairman of Sri Srinivasa Educational & Charitable trust. Sri G.D. Manoj is the Executive Director of SCE. SCE began its glorious journey in the year 2001. It is approved and accredited by AICTE, New Delhi and is affiliated to VTU Belagavi, Karanataka. The campus of Sapthagiri College of Engineering is spread across 6.5 acres of lush green land with beautiful landscape. The area enjoys pleasant atmosphere throughout the year. The college has secured 22 University ranks and 4 Gold medals.

### Vision

To create and maintain an enabling learning environment for the students to transform them as thorough professionals to meet diverse professional demands of global environments.

### Mission

To provide quality education to the students to pursue courses in different engineering disciplines and to transform their professional dreams into reality and to offer competent budding professionals to the society.

### About the Department:

The Department of Electronics and Communication Engineering (ECE), one of the evergreen and core departments in the Institution was established in the year 2001, is affiliated to Visvesvaraya Technological University (VTU), Belagavi and approved by All India Council for Technical Education (AICTE). The Department offers full-time UG programme in Electronics & Communication Engineering with an intake of 120, PG Programme in VLSI Design and Embedded systems with an intake of 24 and has research center offering Ph.D/M.Sc (Engg.) in Electronics and Communication Engineering recognized by VTU, Belagavi.

### About the Faculty Development Programme:

Its objectives are

- To enhance the Professional skill in the faculty in the field of materials processing.

### Topics Covered

- Basics of Computer Networks.
- Overview of NS-2 & NS-2 Installation.
- Energy and Security Models followed by C++ and OTcl integration method.
- Design and recompilation of new protocol followed by Adding external patches in NS-2
- Performance evaluation of routing protocol.

### Resource Persons:

#### **Dr.Dinesh K. Anvekar**

R&D experience in Indian Institute of Science ranked 18<sup>th</sup> in the world  
Presently he is working as Director R&D at Vijaya Vittala Institute of Technology.

#### **Prof.Kavitha R J**

Current Status: Professor  
Department Of ECE  
ACS college of Engineering, Bengaluru.  
Qualification B.E(ECE). MTech. (PhD)

### Address for Registration /Communication

**Prof.Prathiba P : 9448914448**

  
**Principal**

**Sapthagiri College of Engineering**  
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Bangalore- 560 057



**2016-17(ODD)**

**List of participants and Attendance FDP on "Computer Networking using NS2"**

**From 12<sup>th</sup> July 2016 to 16<sup>th</sup> July 2016**

| Sl. No. | Name of the Faculty | 12/07/16 |    | 13/07/16 |    | 14/07/16 |    | 15/07/16 |    | 16/07/16 |    |
|---------|---------------------|----------|----|----------|----|----------|----|----------|----|----------|----|
|         |                     | FN       | AN | FN       | AN | FN       | AN | FN       | AN | FN       | AN |
| 1       | Sandhya Rani.MH     | 3        | 3  | 3        | 3  | 3        | 3  | 3        | 3  | 3        | 3  |
| 2       | Shilpa.V            | 2        | 2  | 2        | 2  | 2        | 2  | 2        | 2  | 2        | 2  |
| 3       | S. Shobha           | 8        | 8  | 8        | 8  | 8        | 8  | 8        | 8  | 8        | 8  |
| 4       | Satish muddu        | 6        | 6  | 6        | 6  | 6        | 6  | 6        | 6  | 6        | 6  |
| 5       | Suma V Shetty       | 9        | 9  | 9        | 9  | 9        | 9  | 9        | 9  | 9        | 9  |
| 6       | Shobha H            | 1        | 1  | 1        | 1  | 1        | 1  | 1        | 1  | 1        | 1  |
| 7       | Sasmita Monapara    | 11       | 11 | 11       | 11 | 11       | 11 | 11       | 11 | 11       | 11 |
| 8       | Preethi.T           | 10       | 10 | 10       | 10 | 10       | 10 | 10       | 10 | 10       | 10 |
| 9       | Varshini.K          | 12       | 12 | 12       | 12 | 12       | 12 | 12       | 12 | 12       | 12 |
| 10      | Prathibha.P         | 1        | 1  | 1        | 1  | 1        | 1  | 1        | 1  | 1        | 1  |
| 11      | Ravishankar M.N     | 10       | 10 | 10       | 10 | 10       | 10 | 10       | 10 | 10       | 10 |
| 12      | Vani.V              | 11       | 11 | 11       | 11 | 11       | 11 | 11       | 11 | 11       | 11 |
| 13      | Karthik.N.C         | 1        | 1  | 1        | 1  | 1        | 1  | 1        | 1  | 1        | 1  |
| 14      | VANI.A              | 10       | 10 | 10       | 10 | 10       | 10 | 10       | 10 | 10       | 10 |
| 15      | JAXADIEV.DB         | 12       | 12 | 12       | 12 | 12       | 12 | 12       | 12 | 12       | 12 |
| 16      | VIJAYA LAKSHMI      | 11       | 11 | 11       | 11 | 11       | 11 | 11       | 11 | 11       | 11 |
| 17      | Anisha muddu        | 10       | 10 | 10       | 10 | 10       | 10 | 10       | 10 | 10       | 10 |
| 18      | Shwetha.es          | 9        | 9  | 9        | 9  | 9        | 9  | 9        | 9  | 9        | 9  |
| 19      | RASHMI.C            | 10       | 10 | 10       | 10 | 10       | 10 | 10       | 10 | 10       | 10 |
| 20      | NAVEEN.H            | 12       | 12 | 12       | 12 | 12       | 12 | 12       | 12 | 12       | 12 |
| 21      | Pavan.es.s          | 10       | 10 | 10       | 10 | 10       | 10 | 10       | 10 | 10       | 10 |
| 22      | Suma.C              | 9        | 9  | 9        | 9  | 9        | 9  | 9        | 9  | 9        | 9  |
| 23      | Charithra.P         | 9        | 9  | 9        | 9  | 9        | 9  | 9        | 9  | 9        | 9  |
| 24      |                     |          |    |          |    |          |    |          |    |          |    |





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### Department of Electronics and Communication

#### FCP report on "Computer Networking using NS2"

Date: 12.07.2016 to 16.07.2016

Time: 9 AM to 4 PM

Venue: VLSI Lab, Academic Block, SCE

#### RESOURCE PERSONS PROFILE:

##### 1. Dr. Dinesh K. Anvekar

**Professional Experience:** Dr. Dinesh K. Anvekar has 16 years of R&D experience in Indian Institute of Science ranked 18<sup>th</sup> in the world. Presently he has working as Director R&D at Vijaya Vittala Institute of Technology. He has Worked as Lead, Innovation Initiatives at Honeywell Technology Solutions Lab. He has over 40 research publications in refereed International Journals and Conference Proceedings

##### 2. Name: Prof. Kavitha R J

**Current Status:** Professor

**Department Of** ECE

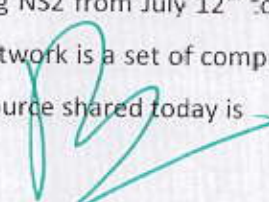
ACS college of Engineering, Bengaluru.

**Qualification** B.E(ECE). MTech. (PhD)

**Professional Experience:** Prof. Kavitha R J Has 15 years of Teaching experience. She has Started her teaching career as a Lecturer in East point college of Engineering, Bengaluru. She Has published journals in national and international level.

#### Summary Report

Faculty development programme was conducted on Computer networking using NS2 from July 12<sup>th</sup> to July 16<sup>th</sup>, 2016. The session started with basics of Computer Networks. computer network is a set of computers connected together for the purpose of sharing resources. The most common resource shared today is

  
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**Department of Electronics and Communication**

connection to the Internet. Next started with Overview of NS-2 & NS-2 Installation. Computer simulation is the designing of a theoretical physical system on a digital computer with emphasis on model designing, execution and analysis. After creation of the mathematical model the most important step is to create a computer program for updating the state and event variables through time

On the second day session was started by resource person with Simulation and interpretation of trace file followed by Trace file analysis using awk scripts. The files written by an application (or by the Coverage Server) to store coverage information or overall network information and In NS2 it is called as Trace File. Awk scripts are used in order to create trace file.

On the third day session was started by resource person with Energy and Security Models followed by C++ and OTcl integration method. On the fourth day session started with Design and re-compilation of new protocol followed by Adding external patches in NS-2

On the last day session was started by resource person with Performance evaluation of routing protocol. The performance of AODV protocol and study its effects with respect to performance metrics that may influence network performance. The metrics like Packet Delivery Ratio, End to End Delay, Route Overhead, Throughput, and Energy Consumption are verified using the number of nodes, Simulation Time, Packet Size and Mobility

The session followed by question and answers where faculties interacted on questions about implementation of projects on NS-2. They also discussed about future of the domain. The FDP was useful and well appreciated by faculties. The session was concluded with vote of thanks and distribution of certificates to the participants.

  
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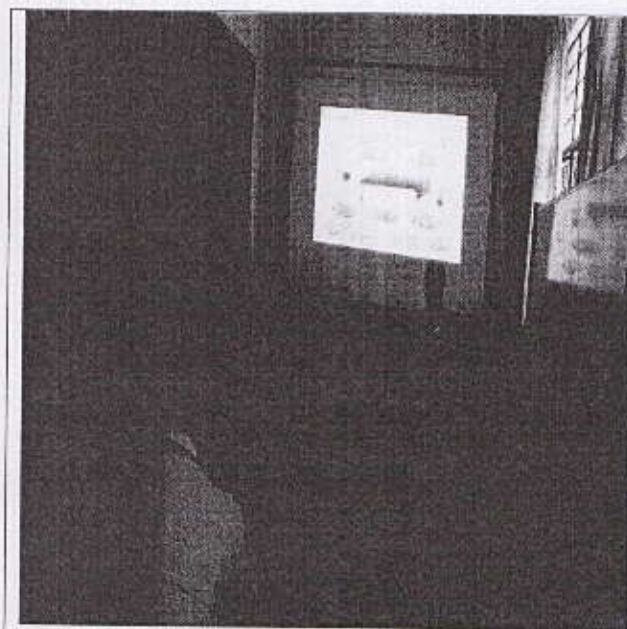
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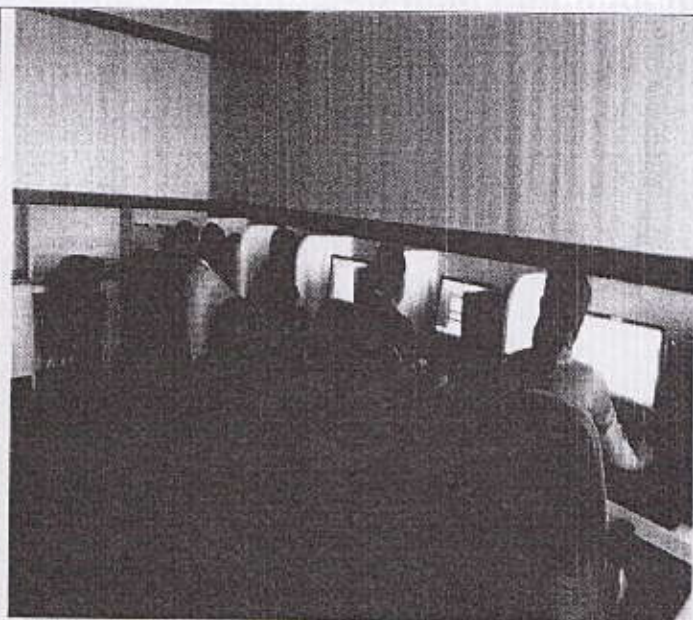
### Department of Electronics and Communication



*Dr. Dinesh Anvekar delivering speech to participants*



*Prof. Kavitha R J delivering speech to participants*



*Hands-on on Computer networking using NS2*



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Chairman

Academic committee

Head of the Department  
Electronics & Communication  
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## Certificate

*This is to Certify that Mr./Mrs. Chauithra P of has participated and successfully completed Five days Workshop on Computer Networking using NS2 from 12<sup>th</sup> July to 16<sup>th</sup> July 2016 organized by the Electronics and Communication Engineering Department, Sapthagiri College of Engineering.*

  
HOD

Dept. of ECE

  
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Phone: 080-28 372800/1/2

Fax: 080-28 372797

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

Date: 13/06/2015

### CIRCULAR

Faculties are hereby informed that department is conducting following FDP:

**Subject:** "MATLAB Basics & Hands on training".

**Date:** 12<sup>th</sup> July 2016 to 16<sup>th</sup> July 2016.

All are requested to attend the FDP without fail.



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



HOD  
Dept. of EEE



## SAPTHAGIRI COLLEGE OF ENGINEERING

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

#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru- 560 057.

Web: [www.sapthagiri.edu.in](http://www.sapthagiri.edu.in), Email: [principal@sapthagiri.edu.in](mailto:principal@sapthagiri.edu.in)

Phone: 080-28 372800/1/2

Fax: 080-28 372797

### DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

### Minutes of Meeting

A meeting of the academic committee was held on 13/06/2016 at HOD's office, Department of EEE.

Dr. K N Ravi, Professor & Head chaired the meeting.

Committee discussed the syllabus, schedule, etc. to conduct five days FDP on "MATLAB Basics & Hands on training" from 12<sup>th</sup> July 2016 to 16<sup>th</sup> July 2016 and the same was approved by the HOD.

#### Detailed Syllabus & Schedule :

##### DAY 1 - Date: 12/07/2016

| Time                       | Topics  |
|----------------------------|---|
| 09:30 am<br>To<br>11:00 am | Inauguration, Invocation, welcome speech, Introduction of resource person, presidential address |
| <b>Tea Break</b>           |   |
| 11:30 am<br>To<br>1:30 pm  | Introduction, Why MATLAB?   |
| <b>Lunch Break</b>         |   |
| 02:30 pm<br>To<br>04:00 pm | Tool Box- a. SIM Power System   |

##### DAY 2 - Date: 13/07/2016

| Time                       | Topics              |
|----------------------------|---------------------|
| 09:30 am<br>To<br>11:00 am | b. Control System   |
| <b>Tea Break</b>           |                     |
| 11:30 am<br>To<br>1:30 pm  | c. Image processing |
| <b>Lunch Break</b>         |                     |
| 02:30 pm<br>To<br>04:00 pm | d. FUZZY Logic      |

  
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### DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

#### DAY 3 – Date:14/07/2016

| Time                       | Topics                             |
|----------------------------|------------------------------------|
| 09:30 am<br>To<br>11:00 am | e. Digital Signal Processing       |
| <b>Tea Break</b>           |                                    |
| 11:30 am<br>To<br>1:30 pm  | Applications of MATLAB in general. |
| <b>Lunch Break</b>         |                                    |
| 02:30 pm<br>To<br>04:00 pm | Applications of MATLAB in research |

#### DAY 4 – Date:15/07/2016

| Time                       | Topics                       |
|----------------------------|------------------------------|
| 09:30 am<br>To<br>11:00 am | HANDS ON TRAINING ON MATLAB. |
| <b>Tea Break</b>           |                              |
| 11:30 am<br>To<br>1:30 pm  | HANDS ON TRAINING ON MATLAB. |
| <b>Lunch Break</b>         |                              |
| 02:30 pm<br>To<br>04:00 pm | HANDS ON TRAINING ON MATLAB. |

#### DAY 5 – Date:16/07/2016

| Time                       | Topics   |
|----------------------------|--|
| 09:30 am<br>To<br>11:00 am | MATLAB Coding  |
| <b>Tea Break</b>           |  |
| 11:30 am<br>To<br>1:30 pm  | MATLAB Coding  |
| <b>Lunch Break</b>         |  |
| 02:30 pm<br>To<br>04:00 pm | Question / Answer session, Feed Back, Valedictory Function etc |

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Sapthagiri College of Engineering  
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Bangalore- 560 057





## SAPTHAGIRI COLLEGE OF ENGINEERING

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Phone: 080-28 372800/1/2

Fax: 080-28 372797

### DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

#### Academic Committee :

|   |                   |          |  |
|---|-------------------|----------|--|
| 1 | Dr. K N Ravi.,    | Chairman |  |
| 2 | Prof Rekha S N.   | Convenor |  |
| 3 | Prof A Dhamodaran | Member   |  |
| 4 | Prof. Ramya M     | Member   |  |
| 5 | Prof Rukmangada R | Member   |  |

Principal

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



**REGISTRATION FORM**  
**5 Days Faculty Development**  
**Programme**  
**on**

**“MATLAB Basics & Hands on**  
**training”**

**FROM**  
**12th July 2016 to 16th July 2016**

**Name of the Participant:**

.....

**Gender:**

.....

**Department:**

.....

**Name & Address of Institution:**

.....

.....

**Address for Communication:**

.....

.....

.....

**Email ID:**.....

**Mobile:** .....

**Signature of**  
**the Applicant**

**Signature & Seal of**  
**the HOD/ Principal**

**Chief Patrons**

**Sri. G. Dayanand,**

Chairman, Sri. Srinivasa Educational & Charitable Trust,  
Sapthagiri Group of Institutions, Bengaluru

**Sri. G.D. Balaji,**

Executive Director, Sri. Srinivasa Educational  
& Charitable Trust, Sapthagiri Group of Institutions

**Sri. G.D. Manoj,**

Executive Director, Sri. Srinivasa Educational  
& Charitable Trust, Sapthagiri Group of Institutions

**Patrons**

**Dr. Ashwath Kumar M,**

Principal, SCE, Bengaluru

**Program Coordinator**

**Prof. Ashwini C**

Assistant Professor., EEE, SCE, Bengaluru

**MEMBERS**

**Prof. Jhansi K.**

Assistant Professor, EEE, SCE, Bengaluru

**Prof. AShwini C.**

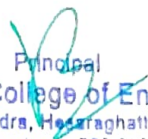
Assistant Professor, EEE, SCE, Bengaluru

**Prof. Ramya M.**

Assistant Professor, EEE, SCE, Bengaluru

**Prof. GuruPrasanna.**

Senior Grade Lecutr, EEE, SCE, Bengaluru

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



**5 Days Faculty Development Programme**  
**on**

**“MATLAB Basics & Hands on**  
**training”**

**FROM**  
**12<sup>th</sup> July 2016 to 16<sup>th</sup> July 2016**

**Organized by**

**Department of**  
**Electrical and Electronics**  
**Engineering**



**Sapthagiri College of Engineering**

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

Phone: 080-28372800/01/02/03



## SAPTHAGIRI COLLEGE OF ENGINEERING

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#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru- 560 057.

Phone: 080-28 372800/1/2

Fax: 080-28 372797

### 2016-17(ODD)

**List of participants and Attendance- FDP on "MATLAB Basics & Hands on training"**  
**From 12<sup>th</sup> July 2016 to 16<sup>th</sup> July 2016.**

| Sl No. | Name of the Faculty | 12/07/16 |    | 13/07/16 |    | 14/07/16 |    | 15/07/16 |    | 16/07/16 |    |
|--------|---------------------|----------|----|----------|----|----------|----|----------|----|----------|----|
|        |                     | FN       | AN | FN       | AN | FN       | AN | FN       | AN | FN       | AN |
| 1      | Dr. Ravi            | K        | R  | K        | R  | K        | R  | K        | R  | K        | R  |
| 2      | Thansi B.           | T        | T  | T        | T  | T        | T  | T        | T  | T        | T  |
| 3      | A. Hanmodaram       | A        | H  | A        | H  | A        | H  | A        | H  | A        | H  |
| 4      | Guru Prasanna       | G        | P  | G        | P  | G        | P  | G        | P  | G        | P  |
| 5      | Rekha S.W           | R        | S  | R        | S  | R        | S  | R        | S  | R        | S  |
| 6      | Thandi B            | T        | B  | T        | B  | T        | B  | T        | B  | T        | B  |
| 7      | Ramya M.            | R        | M  | R        | M  | R        | M  | R        | M  | R        | M  |
| 8      | Shwetha G.          | S        | G  | S        | G  | S        | G  | S        | G  | S        | G  |
| 9      | R. Rethanathan      | R        | R  | R        | R  | R        | R  | R        | R  | R        | R  |
| 10     | Ashwini C           | A        | C  | A        | C  | A        | C  | A        | C  | A        | C  |
| 11     | Yousuf Madar        | Y        | M  | Y        | M  | Y        | M  | Y        | M  | Y        | M  |
| 12     | Ashwini A.V.        | A        | V  | A        | V  | A        | V  | A        | V  | A        | V  |
| 13     | Sushma R.           | S        | R  | S        | R  | S        | R  | S        | R  | S        | R  |
| 14     | Krupa K.            | K        | K  | K        | K  | K        | K  | K        | K  | K        | K  |
| 15     | Nandini D.B.        | N        | B  | N        | B  | N        | B  | N        | B  | N        | B  |
| 16     | Divya N.S           | D        | S  | D        | S  | D        | S  | D        | S  | D        | S  |
| 17     | Shwetha C.          | S        | C  | S        | C  | S        | C  | S        | C  | S        | C  |
| 18     | Murali. Krishna     | M        | K  | M        | K  | M        | K  | M        | K  | M        | K  |
| 19     | I                   |          |    |          |    |          |    |          |    |          |    |
| 20     |                     |          |    |          |    |          |    |          |    |          |    |

Principal

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

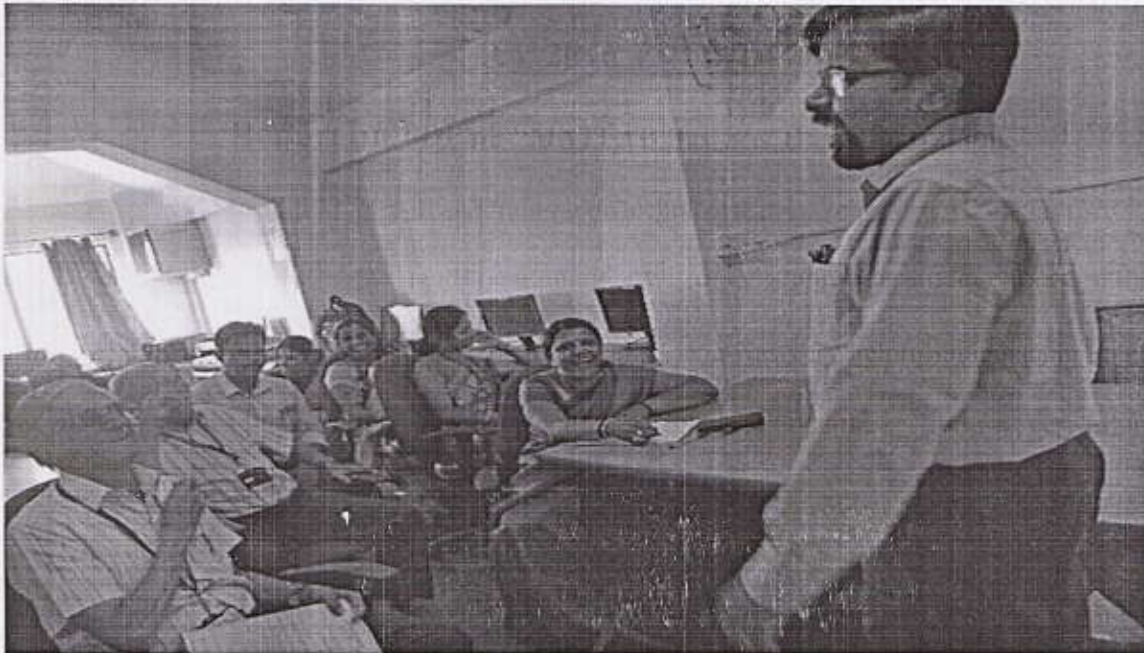


**Sapthagiri College of Engineering**  
14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057  
**Department of Electrical and Electronics and Engineering**  
**FACULTY DEVELOPMENT PROGRAMME COMMITTEE**

**AY 2016-17(ODD)**

**Report on FDP on "MATLAB Basics & Hands on training"**

Aiming to provide an additional skill and training on technical aspects of MATLAB, department conducted an FDP on "MATLAB Basics & Hands on training" by Prof A. Dhamodaran, an expert on the subject from 12<sup>th</sup> July 2016 to 16<sup>th</sup> July 2016. The technical session was very helpful in enhancing the technical knowledge amongst the faculty members. Overall the faculties felt that the session was very informative & gain knowledge about the MATLAB and its applications.



**Principal**

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





# Sapthagiri College of Engineering

Bangalore-560057

## Certificate

This is to certify that Mr. /Ms. Murali Krishna  
of EEE has participated and  
successfully completed 05 days Faculty Development Program on  
"MATLAB Basics & Hands on training" from 12/7/2016 to  
16/7/2016 organized by the Department of Electrical & Electronics  
Engineering, Sapthagiri College of Engineering.

Dr. K N Ravi

HOD, Dept. of EEE

Principal

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

Principal



**CIRCULAR**

02/07/16

All the faculties are hereby informed to attend the meeting in the HOD's Office at 10.30 AM on 04/07/16 to discuss about the Faculty Development Program on Mobile Application Development.

  
HOD ISE

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

Department of  
Information Science & Engg  
Sapthagiri College of Engineering  
14/5, Chikkasandra, Hesaraghatta Main Road  
BANGALORE - 560 057



### Minutes of Meeting

A meeting of all the faculties was held on 4-07-2016 at HOD's office, Department of ISE, Sapthagiri College of Engineering By Prof Prerana Chaithra, HOD chaired the meeting and greeted all faculty.

In the meeting the schedule and budget of five days FDP on Mobile Application Development was discussed and approved by the HOD.

### Detailed Schedule

**Date: 12/07/2016**


#### DAY 1

| Time                     | Topics  |
|--------------------------|---|
| 2:30 pm<br>To<br>4:00 pm | Introduction to Mobile Application Development. |

**13/07/2016**

#### DAY 2

| Time                       | Topics                                |
|----------------------------|---------------------------------------|
| 08:30 am<br>To<br>10:15 am | Get started, Build your first app,    |
| <b>Tea Break</b>           |                                       |
| 10:30 am<br>To<br>12:30 pm | Activities, Testing,                  |
| <b>Lunch Braek</b>         |                                       |
| 01:30 pm<br>To<br>03:00 pm | Debugging and using support Libraries |
| 03:15 pm<br>To<br>04:00 pm | Hands On session.                     |

  
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**DAY 3**

Date: 14/07/2016

| Time                       | Topics                      |
|----------------------------|-----------------------------|
| 08:30 am<br>To<br>10:15 am | User Interaction,           |
| Tea Break                  |                             |
| 10:30 am<br>To<br>12:30 pm | Delightful user experience, |
| Lunch Break                |                             |
| 01:30 pm<br>To<br>03:00 pm | Testing your UI             |
| Tea Break                  |                             |
| 03:15 pm<br>To<br>04:15 pm | Background Tasks,           |

**DAY 4**

Date: 15/07/2016

| Time                       | Topics  |
|----------------------------|---|
| 08:30 am<br>To<br>10:15 am | Triggering,   |
| Tea Break                  |   |
| 10:30 am<br>To<br>12:30 pm | scheduling and optimizing background tasks                      |
| Lunch Break                |   |
| 01:30 pm<br>To<br>03:00 pm | All about data, Preferences and Settings,                       |
| Tea Break                  |   |
| 03:15 pm<br>To<br>04:15 pm | Storing data using SQLite, Sharing data with content providers, |

Date: 16/07/2016

Day 5


| Time                       | Topics                                 |
|----------------------------|--|
| 08:30 am<br>To<br>10:15 am | Loading data using Loaders             |
| Tea Break                  |  |
| 10:30 am                   | Permissions, Performance and Security, |




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

Department of Information Science and Engineering

|                            |                              |
|----------------------------|------------------------------|
| To<br>12:30 pm             |                              |
| <b>Lunch Break</b>         |                              |
| 01:30 pm<br>To<br>03:00 pm | Firestore and AdMob, Publish |

  
Coordinator

  
Principal  
Sapthagiri College of Engineering  
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Bangalore-560 057





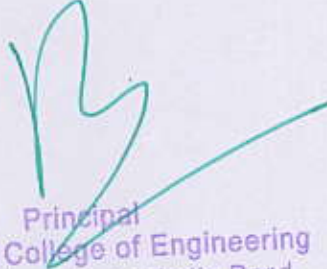
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#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057


Department of Information Science and Engineering

CIRCULAR

11/07/16

All the Faculties of Information Science and Engineering Department are hereby informed to attend five days Faculty Development Program on Mobile Application Development from 12<sup>th</sup> July 2016 to 16<sup>th</sup> July 2016.

  
Principal  
Sapthagiri College of Engineering  
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HOD ISE  
Department of  
Information Science & Engg  
Sapthagiri College of Engineering  
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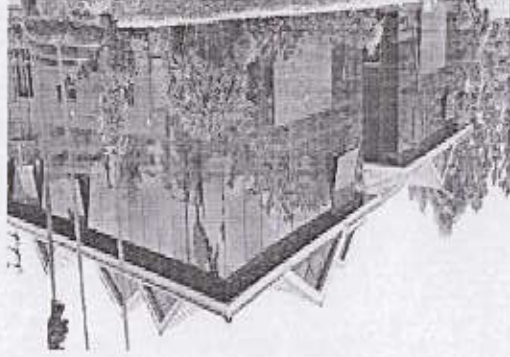


## Five Days Faculty Development Program On

## "Mobile Application Development"

FROM 12<sup>th</sup> July 2016 to 16<sup>th</sup> July 2016

## Organized by Department of Information Science and Engineering



Sathagiri College of Engineering#14/5,  
Chikkasandra, Hesaraghatta Main Road,  
Bengaluru 560057  
Phone: 080-28372800/01/02/03

### About the College

Sathagiri Group of Institutions is the creation of Sri Srinivasa Educational & Charitable trust, Bengaluru. Sathagiri College of Engineering is the brainchild of honorable Sri Gityappa, Founder Chairman and Sri. G. Dayanand, Chairman of Sri Srinivasa Educational & Charitable trust. Sri G.D. Manoj, is the Executive Director of SCE. SCE began its glorious journey in the year 2004. It is approved and accredited by AICTE, New Delhi and is affiliated to VTU Belagavi, Karnataka. The campus of Sathagiri College of Engineering is spread across 6.5 acres of lush green land with beautiful landscape. The area enjoys pleasant atmosphere throughout the year. The college has secured 22 University ranks and 4 Gold medals.

### Vision

To create and maintain an enabling learning environment for the students to transform them as thorough professionals to meet diverse professional demands of global environments.

### Mission

To provide quality education to the students to pursue courses in different engineering disciplines and to transform their professional dreams into reality and to offer competent budding professionals to the society.

### About the Department:

The Information Science and Engineering Department had its beginning in the year 2001 with an intake of 120 students, and is one of the pioneering departments at Sathagiri College of Engineering. The Department has well qualified and dedicated faculty members, who always put in their best efforts to ensure that quality education is imparted to students. The Department will be striving in the progressive path to achieve

### About the FDP:

excellence in academics and research activities. Apart from the qualified faculty and staff, the Department has state-of-the-art laboratories and latest software's.

### Resource Persons:

- The faculties can enhance their skills in the field of mobile application development.
- To understand the portability and ease of use make the usability of mobile applications.

### Dr Girish

Associate Professor

Department of mathematics

Acharya Institute of Technology

### Address for

### Communication/Registration

**Prof. Gayatri R**

Assistant Professor, CSE

Ph: 8147290734

**Prof.Ramya R.**

Assistant Professor

Ph: 8884816537

### Email-id for registration:

gayatirkrishna@sathagiri.edu.in

Principal

Sathagiri College of Engineering

Chikkasandra, Hesaraghatta Road

Bangalore-560 057



**FDP on "Mobile Application Development" Attendance**

| Sl No. | Faculty Name         | 12.7.16    |            | 13.7.16    |            | 14.7.16    |            | 15.7.16    |            | 16.7.16    |            |
|--------|----------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
|        |                      | MS         | AS         | MS         | AS         | MS         | AS         | MS         | AS         | MS         | AS         |
| 1      | Prof Sunita K        | Ks         | Ks         | Ks         | Ks         | Ks         | Ks         | Ks         | Ks         | Ks         | Ks         |
| 2      | Prof Mala-hi K P     | KP         | KP         | KP         | KP         | KP         | KP         | KP         | KP         | KP         | KP         |
| 3      | Prof Ravichandra M   | Rm         | Rm         | Rm         | Rm         | Rm         | Rm         | Rm         | Rm         | Rm         | Rm         |
| 4      | Prof Ramya R         | R          | R          | R          | R          | R          | R          | R          | R          | R          | R          |
| 5      | Prof Prakruthi S T   | St         | St         | St         | St         | St         | St         | St         | St         | St         | St         |
| 6      | Prof Vijay Kumar F G | Vj         | Vj         | Vj         | Vj         | Vj         | Vj         | Vj         | Vj         | Vj         | Vj         |
| 7      | Prof Meghana         | Megha      | Megha      | Megha      | Megha      | Megha      | Megha      | Megha      | Megha      | Megha      | Megha      |
| 8      | Prof Tejaswini B.S   | Tejaswini  | Tejaswini  | Tejaswini  | Tejaswini  | Tejaswini  | Tejaswini  | Tejaswini  | Tejaswini  | Tejaswini  | Tejaswini  |
| 9      | Prof Sheethal Raj    | Sheethal   | Sheethal   | Sheethal   | Sheethal   | Sheethal   | Sheethal   | Sheethal   | Sheethal   | Sheethal   | Sheethal   |
| 10     | Prof Sowmya Somrath  | Sowmya     | Sowmya     | Sowmya     | Sowmya     | Sowmya     | Sowmya     | Sowmya     | Sowmya     | Sowmya     | Sowmya     |
| 11     | Prof Sanjay Kumar    | Sanjay     | Sanjay     | Sanjay     | Sanjay     | Sanjay     | Sanjay     | Sanjay     | Sanjay     | Sanjay     | Sanjay     |
| 12     | Prof Gayatri R       | Gayatri    | Gayatri    | Gayatri    | Gayatri    | Gayatri    | Gayatri    | Gayatri    | Gayatri    | Gayatri    | Gayatri    |
| 13     | Prof Divyashree G    | Divyashree | Divyashree | Divyashree | Divyashree | Divyashree | Divyashree | Divyashree | Divyashree | Divyashree | Divyashree |
| 14     | Prof Bhavya          | Bhavya     | Bhavya     | Bhavya     | Bhavya     | Bhavya     | Bhavya     | Bhavya     | Bhavya     | Bhavya     | Bhavya     |
| 15     | Prof Praneetha G N   | Praneetha  | Praneetha  | Praneetha  | Praneetha  | Praneetha  | Praneetha  | Praneetha  | Praneetha  | Praneetha  | Praneetha  |
| 16     | Prof Ambika S        | Ambika     | Ambika     | Ambika     | Ambika     | Ambika     | Ambika     | Ambika     | Ambika     | Ambika     | Ambika     |

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

Coordinator



## **Report on Mobile Application Development**


No of Participants =16

Aiming to provide an Faculty Development Program on Mobile Application Development for the faculties of Department of Information Science Engineering, Sapthagiri College of Engineering held during 12<sup>th</sup> July 2016 to 16<sup>th</sup> July 2016. The resource person for this FDP is Prof Girish Acharya Institute of Technology Bangalore. Overall the faculties felt that the session was informative & gained knowledge about Mobile Application Development and its applications. The hands on session helped the faculties to gain practical knowledge. Faculties were able to understand how the mobile app is developed for the mobile devices. Speaker explained the integrated development environments which enhanced the skills of the faculties.



FDP on Mobile Application Development

  
**Principal**  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore-560057

  
Coordinator





# Sapthagiri College of Engineering


Bangalore-560057

## Certificate

This is to Certify that Mr./Ms. PRANEETHA G. N  
of Information Science and Engineering has participated  
and successfully completed Five days Faculty Development Program on  
"Mobile Application Development" from 12<sup>th</sup> July, 2016 to 16<sup>th</sup>  
July, 2016 organized by the Department of Information Science &  
Engineering, Sapthagiri College of Engineering.

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Chikkasandra Hesareghatta Road,  
Bangalore-560 057

Principal

  
HOD, Dept of ISE

  
Principal





**DEPARTMENT OF MECHANICAL ENGINEERING  
SAPTHAGIRI COLLEGE OF ENGINEERING**

(Affiliated to Visvesvaraya Technological University Belagavi & Approved by AICTE, New Delhi.)  
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru- 560 057.

Date: 18/06/16

**CIRCULAR**

Mechanical Engineering faculty are hereby informing that there will be a faculty development program entitled "**Smart Materials & Structures**" for three days on 12<sup>th</sup> July 2016 to 16<sup>th</sup> July 2016. The interested candidates enroll your names with **Mr. MadhuKumar Y. C.**

**Department of Mechanical Engineering**

H.O.D. Dept. of Mech. Engg  
S.C.E., Bangalore-560 057

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



Date:17/06/2016

### Minutes of Meeting

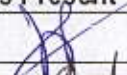
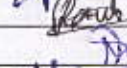

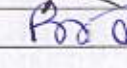



A meeting was conducted on 17<sup>th</sup> June 2016 in Mechanical HOD office to discuss and finalize the following about the five days faculty development program. The following points have discussed in the meeting

- FDP program for Mechanical faculty on 12<sup>th</sup> July 2016 to 16<sup>th</sup> July 2016.
- Programme Convener- **Mr. MadhuKumar Y C**
- Certificate program entitled as **Smart Materials & Structures**.
- Course duration and Date

### Course Content


| Date       | Morning Session<br>9.30 a.m. to 12.30 p.m.    | Afternoon Session<br>2.00 p.m. to 5.00 p.m.                        |
|------------|---|--|
| 12/07/2016 | Registration & Inauguration Function          | Nano composites, Smart materials in automobile industries          |
| 13/07/2016 | Piezoelectric materials & Optoelectronics     | Thermo-responsive materials, Shape memory Alloys                   |
| 14/07/2016 | Photovoltaic & Photomechanical materials      | Smart packaging materials, 3D-Printing the Future of manufacturing |
| 15/07/2016 | Dielectric Elastomers & pH Sensitive polymers | Smart & Electro active polymers                                    |
| 16/07/2016 | Self healing and Chemo responsive materials   | Valedictory Function   |

### Faculty members Present

|                    |   |
|--------------------|---|
| Mr. Padmanabha G   |  |
| Mr. RamKumar M     |  |
| Mr. Ramesh N G     |  |
| Mr. MadhuKumar Y C |  |
| Mr. ArunKumar R    |  |
| Mr. Pramod S V     |  |
| Mr. Prathima C N   |   |
| Mr. AnilKumar P R  |  |

  
**Principal**

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

  
H.O.D. Dept. of Mech. Engg  
S.C.E., Bangalore-560 057



### About the College

Sapthagiri Group of Institutions is the creation of Sri Srinivasa Educational & Charitable trust, Bengaluru. Sapthagiri College of Engineering is the brainchild of honorable Sri Late Giriappa, Founder Chairman and Sri. G. Dayanand, Chairman of Sri Srinivasa Educational & Charitable trust. Sri G.D. Manoj, is the Executive Director of SCE. SCE began its glorious journey in the year 2001. It is approved and accredited by AICTE, New Delhi and is affiliated to VTU Belagavi, Karnataka. The campus of Sapthagiri College of Engineering is spread across 6.5 acres of lush green land with beautiful landscape. The area enjoys pleasant atmosphere throughout the year.

### Vision

To be a best institution imparting quality engineering education to deal with community needs through learning and performance.

### Mission

To implement path breaking student centric education methods. -To augment talent, nurture teamwork to transform to develop individual as responsible citizen. -To educate the students and faculties about entrepreneurship to meet vibrant requirements of the society. -Strengthen Industry-Institute Interaction for knowledge sharing.

### Chief Patrons

**Sri. G. Dayanand,**  
Chairman, Sri. Srinivasa Educational & Charitable Trust, Sapthagiri Group of Institutions, Bengaluru

**Sri. G.D. Balaji,**  
Executive Director, Sri. Srinivasa Educational & Charitable Trust, Sapthagiri Group of Institutions

**Sri. G.D. Manoj,**  
Executive Director, Sri. Srinivasa Educational & Charitable T, Sapthagiri Group of Institutions

### Patrons

**Dr. AswathKumar M**  
Principal, SCE, Bengaluru

**Dr.S H Manjunath**  
Prof.& HOD, Dept. of ME, SCE, Bengaluru

**Mr. MadhuKumar Y C**  
Asst. Professor, SCE, Bengaluru

### Convener

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

Coordinator

### Faculty Development Programme On Smart Materials and Structures

On  
12<sup>th</sup> -16<sup>th</sup> July 2016  
Organized by

### Sapthagiri College of Engineering

Department of Mechanical Engineering

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

Phone: 080-28372800/01/02/03



### About the FDP:

This Faculty Development Training Program is intended to provide opportunity for teachers employed in AICTE approved and Anna University affiliated institutions for teaching and upgrading their knowledge in the area of Composite Materials and Mechanics. The program will be very useful for those who are involved in teaching the course Composite Materials and Mechanics at UG level. This will also provide a basic platform for a faculty who is willing to carry out research in this area.

### Topics to be Covered

Introduction to Smart Materials, Need and General Characteristics, Various types and its applications.

### Resource Persons:

**Prof. R G Deshpande**  
Assistant Professor  
Department of Mechanical Engineering  
B M S Institute of Technology Bangalore

**Prof. Basavaraju S**  
Assistant Professor  
Department of Mechanical Engineering  
Acharya Institute of Technology Bangalore



**DEPARTMENT OF MECHANICAL ENGINEERING**  
**SAPTHAGIRI COLLEGE OF ENGINEERING**

(Affiliated to Visvesvaraya Technological University Belagavi & Approved by AICTE, New Delhi.)  
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru- 560 057.

**FDP ON**  
**Smart Materials & Structures**  
Attendance

| Sl. No. | Name            | 12-07-2016 |    | 13-07-2016 |    | 14-07-2016 |    | 15-07-2016 |    | 16-07-2016 |    |
|---------|-----------------|------------|----|------------|----|------------|----|------------|----|------------|----|
|         |                 | MS         | AN | MS         | AN | MS         | AN | MS         | AN | MS         | AN |
| 1       |                 |            |    |            |    |            |    |            |    |            |    |
| 2       | A.M Mahesh      | 1          | 2  | 3          | 4  | 5          | 6  | 7          | 8  | 9          | 10 |
| 3       | Arun Kumar R    | 1          | 2  | 3          | 3  | 4          | 5  | 6          | 7  | 8          | 9  |
| 4       | Ram Kumar M     | 1          | 2  | 3          | 4  | 5          | 6  | 6          | 7  | 8          | 9  |
| 5       | Madhu Kumar J.C | 1          | 2  | 3          | 4  | 5          | 6  | 7          | 8  | 8          | 9  |
| 6       | Mahesh S        | 1          | 2  | 3          | 4  | 5          | 6  | 7          | 8  | 9          | 10 |
| 7       | P.R RAO         | 1          | 2  | 3          | 4  | 5          | 6  | 7          | 8  | 9          | 10 |
| 8       | Padmanabha G    | 1          | 2  | 3          | 4  | 5          | 6  | 7          | 8  | 9          | 10 |
| 9       | Tilak S         | 1          | 2  | 2          | 3  | 4          | 5  | 6          | 7  | 8          | 9  |
| 10      | Ramesh W.G      | 1          | 1  | 2          | 3  | 4          | 5  | 6          | 7  | 8          | 9  |
| 11      | G.R Jagannath   | 1          | 2  | 3          | 4  | 5          | 6  | 7          | 8  | 9          | 10 |
| 12      | Pramod S.V      | 1          | 2  | 3          | 4  | 5          | 6  | 7          | 8  | 9          | 10 |
| 13      | Ullas C.S       | 1          | 2  | 3          | 4  | 5          | 6  | 7          | 8  | 9          | 10 |
| 14      | T. Venkategowda | 1          | 2  | 2          | 3  | 4          | 5  | 6          | 7  | 8          | 9  |
| 15      | Rajalakshmi S   | 1          | 2  | 3          | 4  | 5          | 6  | 7          | 8  | 9          | 10 |
| 16      | Prathima CN     | 1          | 2  | 3          | 4  | 5          | 6  | 7          | 8  | 9          | 10 |
| 17      | Anil Kumar P.R  | 1          | 2  | 3          | 4  | 5          | 5  | 6          | 7  | 8          | 9  |
| 18      | Mahadev Prasad  | 1          | 2  | 3          | 4  | 5          | 6  | 7          | 7  | 8          | 8  |
| 19      | Sajany H.M      | 1          | 2  | 3          | 4  | 5          | 6  | 7          | 8  | 9          | 10 |
| 20      |                 |            |    |            |    |            |    |            |    |            |    |
| 21      |                 |            |    |            |    |            |    |            |    |            |    |

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

  
Signature of Convener



## REPORT

### FDP on Smart Materials and Structures

Department of mechanical Engineering organized FDP on Smart Materials and Structures.

#### Speakers

Prof. R G Deshapande, Associate Professor, Department of Mechanical Engineering,, B M S Institute of Technology Bangalore.


Prof. Basavaraju S, Assistant Professor, Department of Mechanical Engineering, Acharya Institute of Technology Bangalore

**Duration of the course:** July 12<sup>th</sup> 2016 to July 16<sup>th</sup> 2016

| Date       | Morning Session<br>9.30 a.m. to 12.30 p.m.    | Afternoon Session<br>2.00 p.m. to 5.00 p.m.                        |
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| 16/07/2016 | Self healing and Chemo responsive materials   | Valedictory Function   |



The FDP Planned to provide an intense discussion on Smart Materials and Structures. The faculty members felt that the session was informative & gained knowledge about smart materials processing and its Applications in structures.

  
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Bangalore- 560 057

  
Signature of the Convener



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#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru- 560 057.





## Certificate

*This is to Certify that Mr./Mrs. MAHADEVA PRASAD of has participated and successfully completed Five days FDP on "Smart Materials & Structures" from 12<sup>th</sup> July to 16<sup>th</sup> July 2016 organized by the Mechanical Engineering Department Sapthagiri College of Engineering.*

  
HOD

Dept. of ME

  
Sapthagiri  
Chikkasandra, Hesaraghatta Road,  
Bangalore-560 057

  
Principal