

# SAPTHAGIRI COLLEGE OF ENGINEERING

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

## 3.2.2 Additional Documents for the year 2018-19

| Sl. No. | Name of the workshop/<br>seminar   | Department | Date<br>From – To              | Page Nos |
|---------|--|------------|--------------------------------|----------|
| 1.      | Prospectus in Competitive exams  | BT         | 20-09-2018                     | 3        |
| 2.      | Hands-on on Network Security & Awareness of DIGITAL INDIA and IT Jobs in IT/IMS Industry | ECE        | 22-09-2018                     | 4-5      |
| 3.      | An Expert Talk on "Research Orientation and Academic Project Planning"                   | ISE        | 25-09-2018                     | 6-7      |
| 4.      | 3D Printing  | ME         | 28-09-2018                     | 8-10     |
| 5.      | Internet of Things by GEEKS Lab in association with AIESEC IIT-Delhi                     | CSE        | 12-10-2018<br>To<br>13-10-2018 | 11-13    |
| 6.      | MySQL, ODBC, JDBC – Data Base connectivity – By Navigem.                                 | CSE        | 17-10-2018                     | 14-15    |
| 7.      | 5 days workshop on "Networking and Security"   | ECE        | 31-10-2018 To<br>05-11-2018    | 16-17    |
| 8.      | 1 day workshop on "IoT's and its applications"   | ECE        | 03-11-2018                     | 18       |
| 9.      | Student Development Program On Arduino   | CSE        | 17.11. 2018 to<br>18.11. 2018  | 19-20    |
| 10.     | One day workshop on Machine Learning Laboratory  | CSE        | 19.11.2018                     | 21-23    |
| 11.     | Faculty Development Program Machine Learning And Tools                                   | CSE        | 30.01.2019 To<br>31.01.2019    | 24       |
| 12.     | Three days FDP on Advanced Surveying Technologies using total Station                    | CV         | 31.01.2019-<br>02.02.2019      | 25-28    |
| 13.     | Student Development Program on Object Oriented Concepts                                  | CSE        | 04.02.2019-<br>08.02.2019      | 29       |
| 14.     | Microsoft Certification on IoT   | ECE        | 06.02.2019 to<br>09.02.2019    | 30-31    |
| 15.     | Recent trends on Networking  | ECE        | 16.03.2019                     | 32-33    |

|     |   |     |            |       |
|-----|---|-----|------------|-------|
| 16. | Workshop on Refrigeration & Air conditioning                                    | ME  | 20.03.2019 | 34-35 |
| 17. | Machine Learning using Python   | ECE | 20.03.2019 | 36-37 |
| 18. | Workshop on Tableau – Data Visualization Tool                                   | CSE | 20.03.2019 | 38-39 |
| 19. | Principles of Concrete Mix Design on High Strength and Self Compacting Concrete | CV  | 26-04-2019 | 40-43 |
| 20. | Animal Handling Techniques  | BT  | 27.04.2019 | 44-49 |

**Seminar**  
**Topic: Prospectus in Competitive Exams**  
**By**

**Dr. Natesh DB, KAS**  
Assistant Commissioner, BBMP  
Bangalore

Date: 20/9/2018.

Time: 10.30 PM

Venue: Seminar Hall, SCE Bangalore

The session started with introduction of the guest by Prof. Prashanth Kumar HP  
Department Newsletter "ANVESHANA" was released  
The Guest Lecture was on preparation for competitive exams, Time management, Subjects to be chosen, planning and implementation for UPSC and KPSC exams personality development etc.. were also discussed.  
At the end of the session the faculties and students were able to understand preparations required for competitive exams.



**Students and faculties attending sessions of Dr Natesh**

*Prof. Prashanth Kumar HP*

*Guest Lecture/Workshop/FDP Co-ordinators*

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*Dr Rohith KC*

*HOD*

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



## Guest Lecture Report

**Topic: "Network Security & Awareness of "DIGITAL INDIA" and IT Jobs in IT/IMS Industry"**

By

Mrs. Sunita Amingad  
Technical Manager  
Jetking  
Bangalore



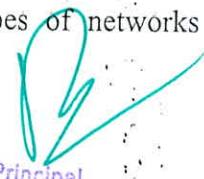
Date: 22.09.2018

Time: 10.30 am to 12.30 pm

Venue: HDL Lab, SCE Bangalore.

The session began with a discussion on Introduction to the network. Speaker briefed about the topics such as Scope of Network , Working of OSI Model , Firewall , types of routing and security in network. Hands-on was conducted using packet.tracer software on various topics such as wired and wireless communication with security.

The session continued with the introduction to Computer Communication Networking and protocols basics. Speaker explained the different types of networks available and their

  
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applications. They also discussed about the usage of open source networking tools. They demonstrated the application and made the session more interactive.


Further speaker suggested the implementation ideas for their project. The session concluded with student's interaction with the questionnaire. Student found the session to be very useful as the lecture covered the topics beyond their syllabus and given idea about practical applications of Computer networks.



*Students and faculties attending the Guest lecture by Mrs. Sunita Amingad*

  
Prof. Vani V & Prof. Vani A  
Guest Lecture/FDP Co-ordinators

  
Prof. Sandhya Rani MH  
HOD ECE  
Head of the Department  
Electronics & Communication  
Sapthagiri College of Engineering,  
Bangalore - 560 057.

  
Principal  
Sapthagiri College of Engineering  
145, Chikkasandra, Hosareghatta Main Road  
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**SAPTHAGIRI COLLEGE OF ENGINEERING,  
BANGALORE-560057**

## **INVITATION**

**INFORMATION SCIENCE AND ENGINEERING  
DEPARTMENT**

### **AGENDA**

**INAUGURATION : 25-9-2018  
10.00 AM to 10.30AM**

- INVOCATION
- WELCOME ADDRESS
- LIGHTING THE LAMP
- ADDRESS BY PRINCIPAL
- INTRODUCTION OF THE GUEST
- VOTE OF THANKS

**SAPTHAGIRI COLLEGE OF ENGINEERING,  
BANGALORE-560057**

Cordially invites you for the inauguration of

### **Guest Lecture**

On

Research Orientation and Academic Project Planning

Dr. Harsha S

Will be the Chief Guest

### **PRESIDED BY:**

**Sri. G Dayananda  
Chairman**

**Sri. G D Manoj  
Executive Director**

### **GRACED BY :**

**Dr. K L Shivabasappa, Principal, SCE.**

**Dr. Nagabhusana, Administrative Officer**

  
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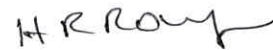
## Expert Talk on Research Orientation and Academic Project Planning: 25-9-2018

Department of Information Science & Engineering, SCE, Bengaluru had organized a Research Orientation session for the final year students of Dept. of ISE on **25-9-2018** titled "**Research Orientation**" by **Dr. Harsha S, Associate Professor, Jyothi Institute of Technology, Bengaluru.**

The session was held at Lecture Hall-306 and the inauguration was carried out by Dr.H. R Ranganatha, HOD, Dept of ISE and Prof. Prerana Chaitra, associate professor and Workshop coordinator, Dept. of ISE.

Dr. Harsha S, an eminent researcher with wide array of experience in guiding students at various levels to prepare innovative academic projects. Dr. Harsha motivated students with his interactive session that disseminated knowledge of Project planning, resource gathering, formulating research problems through his inspiring talk.

He narrated how students can download resources from public domains instead of relying on some coveted paid resource journals that charge us with exorbitant prices. He also shared his own experience in carrying our Projects for state of UAE on Internet of Things and urged students to bid for such international projects. Overall students of final year were able to orient themselves and surge ahead with the academic project work with this talk.



**Dr H.R. Ranganatha**  
**Prof. & H.O.D**

**Dept.of Information Science & Engg.**  
**Sapthagiri College of Engineering**  
**# 14/5 Chikkasandra, Hesaraghatta Main Road**  
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**Bengaluru - 560 057**

Cordially invite you all to  
**One Day Workshop**

**On,**

**“3D PRINTING”**

By

**Mr. Anil M.P**

Director & resource person  
M/S ASP Designs- Mysore

**Sri .G.Dayanand**

Chairman, SCE

**Will preside over,**

**Sri. G.D.Manoj**

Executive Director, SCE

Gracious Presence

**Dr.K.L.Shivabasappa**

Principal, SCE

Guest of Honor

Venue: Classroom No. 306      Date: 28.09.2018  
Time: 8.30AM to 4.30 PM

**Prof.Mahesh.A.M & Prof.Tilak**  
Co-ordinators



**Dr.P.Mahadevaswamy**  
Prof. & HOD, ME



# One Day Workshop Report

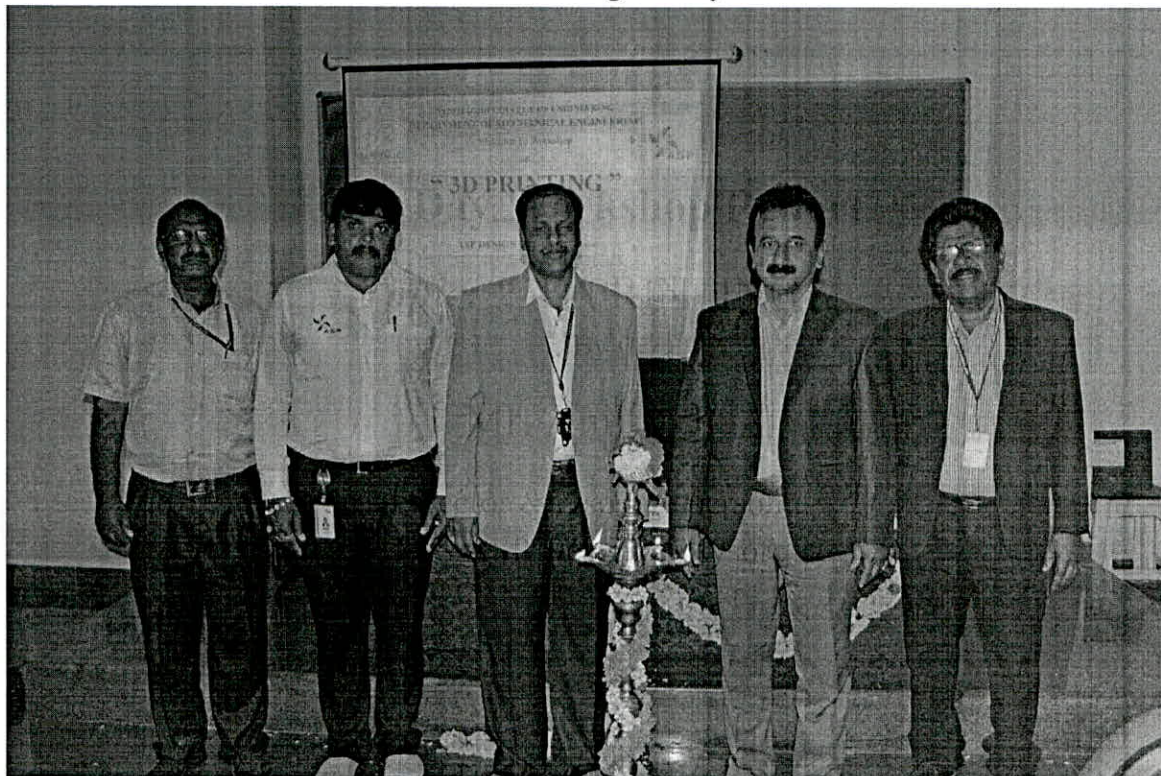
## *Topic: "3D PRINTING"*

By

Mr. Anil M.P

Director & resource person

M/S ASP Designs- Mysore



Date: 28.09.2018

Time: 8.30AM to 4.30 PM

Venue: Classroom No. 306, SCE Bangalore.

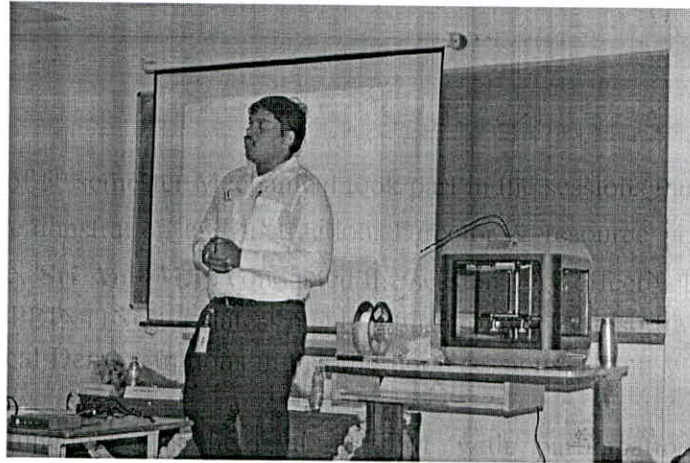
The workshop on "3D Printing" in collaboration with M/S ASP Designs Mysore, was successfully conducted on Friday 28<sup>th</sup> September 2018 by the department of Mechanical Engineering. The workshop was inaugurated by Principal, Dr.K.L Shivabasappa & Administrative officer Dr.K.R Nagabhushana at 9.30 AM with the blessings & sponsorship by chairman Sri G.Dayanand, Executive Directors Sri G.D Manoj & Sri. G.D Balaji. The session was attended by heads of departments and also faculty of Mechanical & other departments.

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About 90 students of 5<sup>th</sup> semester Mechanical took part in the sessions that included technical talk followed by demonstration and interaction. Director & resource person of M/S ASP Designs- Mysore, **Sri Anil M.P.** conducted the session very effectively by elaborating on the features of 3D PRINTING as latest manufacturing tend. He also trained the students in batches with practical Demonstrations in the afternoon sessions. He answered several queries by students & faculty.

The valedictory function was held at 4.15PM with participation by Principal & Administrative officer. Workshop was concluded with distribution of certificates to all the participants.



*Students and faculty attending the sessions*

  
**Prof. Mahesh A.M & Prof. Tilak**  
 Guest Lecture/Workshop/FDP Co-ordinators

  
 Principal  
**Sapthagiri College of Engineering**  
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**Dr. P. Mahadevaswamy**  
 HOD ME

Professor & Head  
 Department of Mechanical Engineering  
**Sapthagiri College of Engineering**  
 Bengaluru - 560 057.



Ref: SCE/CSE/IWS/05

Date: 10/10/2018

To,

**The PRINCIPAL**  
Sapthagiri College of Engineering  
Bangalore - 560057.

From,

**Coordinators,**  
Sapthagiri College of Engineering  
Bangalore - 560057.

Through,

**HOD**  
Computer Science & Engineering  
Sapthagiri College of Engineering  
Bangalore - 560057.

Respected Sir,

Subject: **Hands-on workshop on "IoT" for 5<sup>th</sup> Sem Students.**

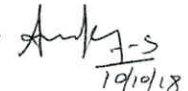
We the Department of Computer Science and Engineering, planned to conduct - **Two Days Hands-on workshop on "Internet of Things by GeeksLab in association with AIESEC, IIT-Delhi"**. For 5<sup>th</sup> Semester students on **12<sup>th</sup> October 2018**.

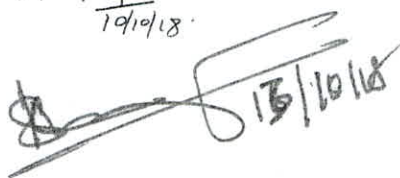
So kindly we request you to approve for the above mentioned subject.


Thanking you Sir,


**Coordinators:**

Ramanagouda S Patil - 

Arun Kumar S - 

  
13/10/18

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

  
**Principal**  
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## REPORT ON WORKSHOP

### "IOT"

Workshop on "IOT" by Mr. Karan Kapoor working as Corporate Trainer in GeeksLabs Tecnogolgy Pvt. Ltd for 5<sup>th</sup> semester students on 12-10-2018 & 13-10-2018, totally 43 students were participated. The speaker provided information on Arduino basics, Sensors: Light intensity sensors, IR sensors, Alarm Sensor, Temperature Sensor and Putting the data of sensors onto the cloud, controlling devices by mobile application and the session was interactive.


Highlights of the discussion were:

- Arduino Basics.
- Storing sensor data onto cloud.
- Mobile application.

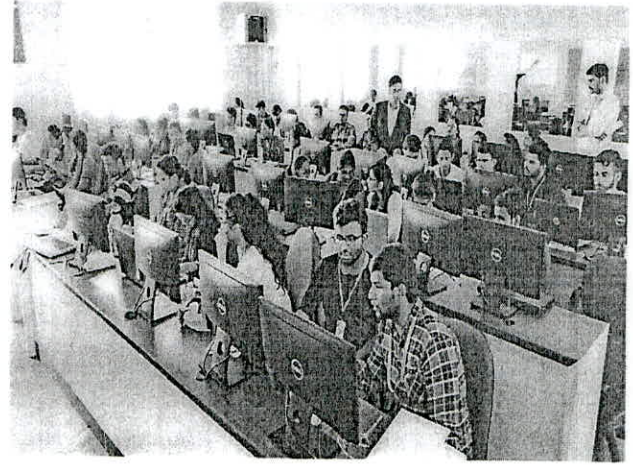
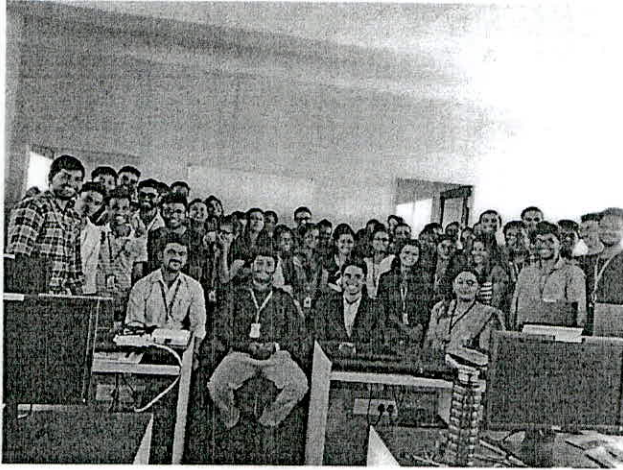
Overall the students felt that the session was informative & gain knowledge about recent technologies.

Glimpse of Workshop




  
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Coordinator

  
Principal  
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For HOD

Ref: SCE/CSE/IWS/07

Date: 16/10/2018

To,

**The PRINCIPAL**  
Sapthagiri College of Engineering  
Bangalore - 560057.

From,

**Coordinator,**  
Sapthagiri College of Engineering  
Bangalore - 560057.

Through,

**HOD**  
Computer Science & Engineering  
Sapthagiri College of Engineering  
Bangalore - 560057.

Respected Sir,


**Subject: Regarding Invited talk & Hands-on "MySQL, ODBC, JDBC - Database Connectivity" for 5<sup>th</sup> Sem Students.**

We the Department of Computer Science and Engineering, planned to conduct - **Invited talk & Hands-on "MySQL, ODBC, JDBC - Database Connectivity"** by Mr. Pramod (NAVIGEM). For 5<sup>th</sup> Semester students on **17<sup>th</sup> October 2018**.

So kindly we request you to approve for the above mentioned subject.

Thanking you Sir,

**Coordinators:**

Ramanagouda S Patil - 

Arun Kumar S - 

  
**HOD**  

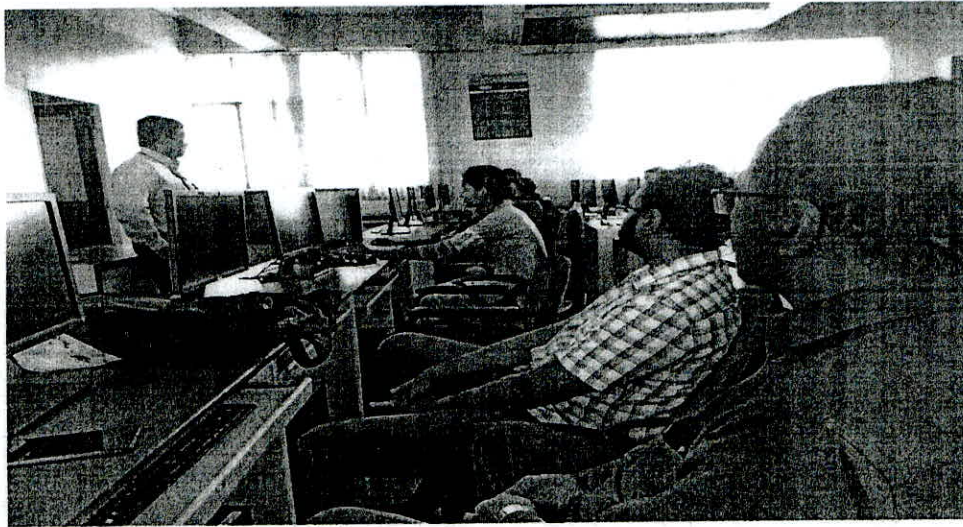

  
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## Report on

### MySQL, ODBC, JDBC - Database Connectivity

Department of CSE had arranged MySQL, ODBC, JDBC - Database Connectivity for 5th semester students on 17/10/18 conducted by Mr. Pramod from **NAVIGEM**. Workshop helped the students to understand about the Web Application development and Database CRUD operations. Team Navigem also shared the sample demo project of the same for the students.



  
Coordinator

  
For HOD

  
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# Five days Hands-on Workshop Report

## Topic: "Networking and Security"

By

Mrs. Sunitha Amingad  
Technical Manager  
JetKing  
Bangalore



Date: 31.10.2018 to 5.11.2018

Time: 8.30 AM to 4.30 PM

Venue: VLSI Lab, SCE Bangalore.

The details of the workshop is given below:

| Day   | Date     | Time        |             | Topic Covered  |
|-------|----------|-------------|-------------|--|
| Day 1 | 31.10.18 | 09.00-10.15 |             | Basic network concepts. Communication modes, devices used to build the network |
|       |          | 10.15-10.30 | Tea Break   |  |
|       |          | 10.30-12.30 |             | Network Standards by OSI   |
|       |          | 12.30-01.00 | Lunch Break |  |
|       |          | 01.00-03.00 |             | TCP/IP model   |
|       |          | 03.00-03.15 | Tea Break   |  |

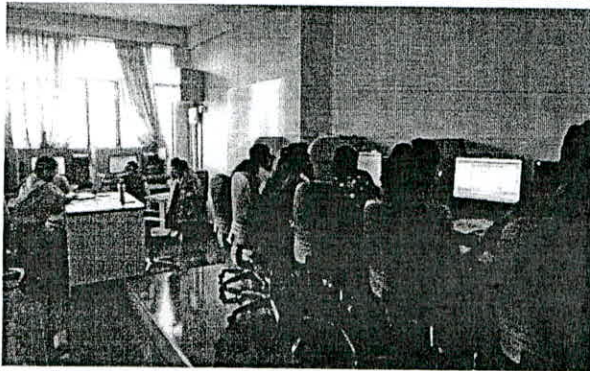
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*Students and faculties attending sessions of Mrs. Sunitha.*

*Prof. Vani V & Prof. Vani A*  
Guest Lecture/Workshop/FDP Co-ordinators

*Prof. Sandhya Rani, MH*  
HOD ECE  
Head of the Department  
Electronics & Communication  
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# One day Hands-on Workshop Report

## *Topic: "IoT's and its applications"*

By

Mr. Chethan CR

Director  
Tekatron IT Solutions  
Bangalore



Date: 03.11.2018

Time: 8.30 AM to 4.30 PM

Venue: HDL Lab, Faraday Block, SCE Bangalore.

First session was started at 09:00AM by an Introduction to microcontrollers such as 8051, ARM, PIC and Arduino by expert Mr. Chethan CR, Director, Tekatron IT Solutions. By this session students had in-depth knowledge of ARDUINO and hence were able to technically know how of working with ARDUINO and its application in various domain of present technological era.

After lunch second session started at 1.30 PM comprising of various laboratory hands on using ARDUINO was conducted by Mr. Chethan and his colleagues. The introduction to the various sensors and actuators and their application was described. The details of the Arduino board were discussed. The students were introduced to soldering the circuit on boards. The laboratory sessions included working with various peripherals including Serial Port, Light Dependent resistance, IR Sensors and many more. Later few projects based on blinking LED,



Ref: SCE/CSE/IWS/04-1

Date: 10/11/2018

To,

**The PRINCIPAL**  
Sapthagiri College of Engineering  
Bangalore - 560057.

From,

**Coordinators,**  
Sapthagiri College of Engineering  
Bangalore - 560057.

Through,

**HOD**  
Computer Science & Engineering  
Sapthagiri College of Engineering  
Bangalore - 560057.

Respected Sir,

**Subject: Regarding Student Development Programme on “Arduino”**

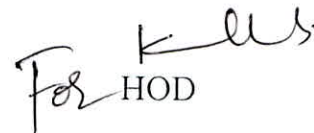
We the Department of Computer Science and Engineering, planned to have an Student Development Programme for all the 3rd sem ‘B’ section students on “Arduino” to be held on 17<sup>th</sup> & 18<sup>th</sup> November 2018 by SST Technologies.

So kindly we request you to approve for the above mentioned subject.

Thanking you Sir,



Coordinators



For HOD



Principal

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## REPORT ON WORKSHOP

### "ARDUINO"

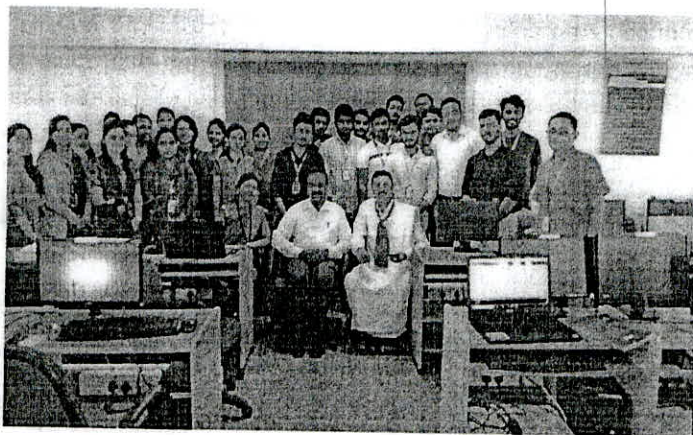
Workshop on "ARDUINO" by Mr. Srinivas shetty working as Technical lead at SST Technologies for 3<sup>rd</sup> semester students on 17/11/2018 & 18/11/2018. The speaker provided information on Arduino, an open source electronics platform based on easy to use hardware & software and hands-on session of using Arduino boards in order to read inputs –light on a sensor, activating a motor, turning on a led etc was provided and the session was interactive.

Highlights of the discussion were:

- Arduino board usage
- Seven Segment Displays
- Multiplexer, Map Entered Variable(MEV)

Overall the students felt that the session was informative & gain knowledge about recent technologies.

Glimpse Of Workshop



  
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Department of Computer Science & Engineering  
SAPTHAGIRI COLLEGE OF ENGINEERING

Academic Year: Odd / 2018 - 2019

Ref: SCE/CSE/IWS/08

Date: 14/11/2018

To,

**The PRINCIPAL**  
Sapthagiri College of Engineering  
Bangalore - 560057.

From,

**Coordinator,**  
Sapthagiri College of Engineering  
Bangalore - 560057.

Through,

**HOD**  
Computer Science & Engineering  
Sapthagiri College of Engineering  
Bangalore - 560057.

Respected Sir,

**Subject: Regarding Workshop on "Machine Learning Laboratory"**

We the Department of Computer Science and Engineering, have planned to conduct one day workshop on **"Machine Learning Laboratory"** on **19th November, 2018** to aid our students in gaining more insight into Machine Learning & Python concepts. The invited speakers had conducted one week Machine Learning workshop and students requested more information on python coding for Machine Learning which will help them out in their 8<sup>th</sup> semester projects.

So kindly we request you to approve for the above mentioned subject.

Thanking you Sir,

Coordinator

1. J. SURYA PRAKASH
2. SNEHA . G
3. VINUTHA . H

HOD 14/11/2018

Principal

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## **REPORT ON WORKSHOP**

### **"Machine Learning Laboratory"**

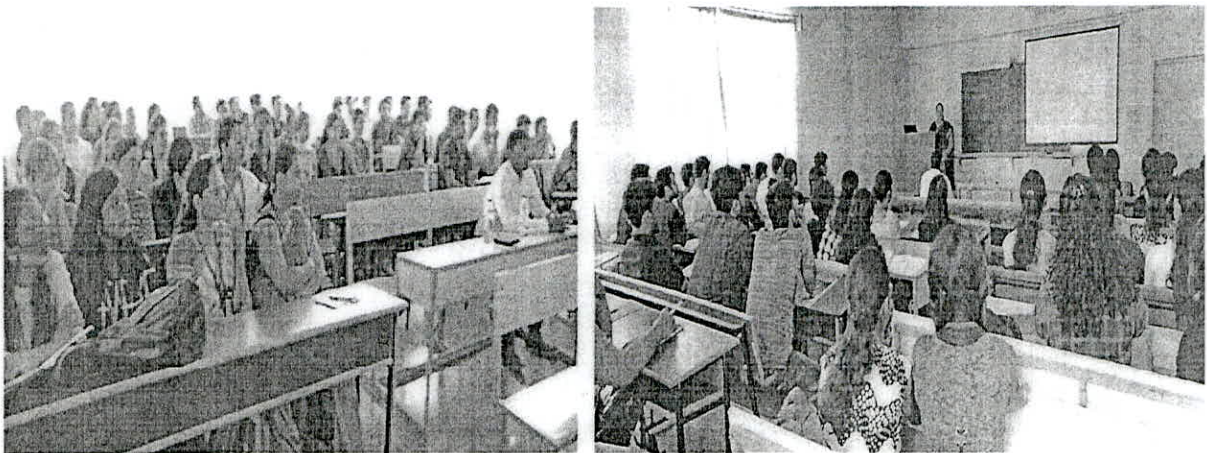
Workshop on "Machine Learning Laboratory" by Prof. Gireesh Babu C N and Prof. Vinutha K working as Assistant Professor, Department of ISE at BMSIT College for 7rd semester students on 19-11-2018, totally 49 students were participated. The speaker provided information on Machine learning concepts. Algorithms & Machine Learning Laboratory programs using Python code was provided and the session was interactive.

Highlights of the discussion were:

- Machine learning concepts
- Machine learning Algorithms
- Machine Learning Laboratory programs

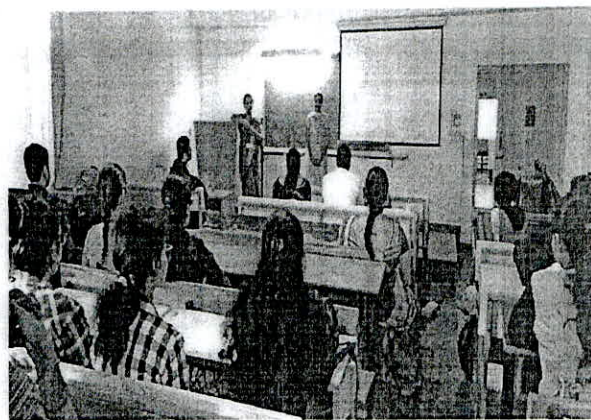
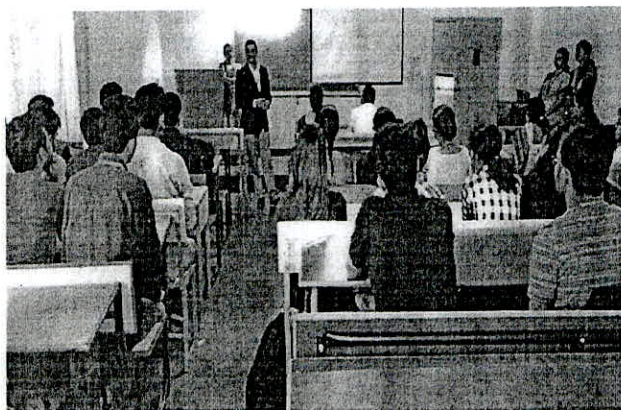
Overall the students felt that the session was informative & gain knowledge about Machine learning concepts.

Glimpse of Workshop



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Coordinator

For   
HOD



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REPORT

**FACULTY DEVELOPMENT PROGRAM  
MACHINE LEARNING AND TOOLS**

30<sup>th</sup> & 31<sup>st</sup> January 2019

About Machine Learning:

Machine learning is an application of artificial intelligence (AI) that provides systems the ability to automatically learn and improve from experience without being explicitly programmed. Machine learning focuses on the development of computer programs that can access data and use it learn for themselves.

The process of learning begins with observations or data, such as examples, direct experience, or instruction, in order to look for patterns in data and make better decisions in the future based on the examples that we provide. The primary aim is to allow the computers learn automatically without human intervention or assistance and adjust actions accordingly.

Resource Persons:

Dr.Suguna, Professor Department of computer science and engineering at Veltech University, Chennai having 25 years of working experience and having good knowledge in Machine Learning algorithms with image mining and gave hands on training in Machine Learning Programs in Python programming Language.

Dr.Shyamala Devi, Professor Department of computer science and engineering at Veltech University, Chennai having 14 years of working experience and having good knowledge in Machine Learning algorithms and gave hands on training in Machine Learning Programs in Python programming Language.



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Principal

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*Handwritten signature*  
Department of Computer Science & Engg.  
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  
Web: www.sapthagiri.edu.in,  
Phone: 080-28372800/1/2- Fax: 080-28372797



## Three days "Faculty Development Program" On "ADVANCED SURVEYING TECHNOLOGIES USING TOTAL STATION"



FDP - 2019

January 31<sup>st</sup> to February 02<sup>nd</sup> 2019

Organized by

Department of Civil Engineering

In Association with



BENGALURU CENTER



### DAY-1 Session-1 9:00AM to 10.30 AM

Introduction to Surveying & Methodologies- 2 hrs

Lecture by S Hemanth Reddy.

Topics Covered: Importance of accurate survey data to a civil Engineering project & Impacts of wrong surveys with live project experience examples.

Brief on latest Technologies and Instruments used as on Today (Total Station, 5 DGPS, Li DAR, Drone UAV)

Introduction to Total station and seven basic steps in learning the Total Station operation

10.30 to 10.45AM: Break

### Session 2: 10.45 to 12.45

Practical Session - Demonstration and practice of seven steps of Total Station

1. Centering 2. Major Levelling 3. Minor Levelling 4. Creation of Job 5. Station Setup 6. Back Orientation 7. Establishing Foresight point

12.45 to 1.45PM: Lunch Break

### Session 3: 1.45 to 3.45PM

Individual Practice of seven steps by all in Batches continues.

### DAY-2 Session-1 9:00 to 10.30 AM

Three point Traversing demo and Practice by all batches.

10.30 to 10.45AM: Break

### Session 1: 10.45 to 12.45

Topographical Survey demo and practice by all in batches.

12.45 to 1.45PM: Lunch Break

### Session 2: 1.45 to 3.45PM

Demo and practice of following application tools Setting Out/Marking, Remote Elevation measurement, Area Calculation

### DAY-3 Session-1 9:00 to 10.30 AM

Carrying out sample topographical Survey of a road project.

10.30 to 10.45AM: Break

### Session 1: 10.45 to 12.45

Sample project continued.

12.45 to 1.45PM: Lunch Break

### Session 2: 1.45 to 3.45PM

Downloading and processing the field data, Theory evaluation test

Questions and Answers

## Three days "faculty development program" on "ADVANCED SURVEYING TECHNOLOGIES USING TOTAL STATION"

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Chairman & Managing Director

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Dr. Nagabhushana K R  
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Dr. R L Ramesh  
Professor & HOD,  
Dept. of Civil Engineering

Organizing Member  
Mr. Raghavendra R  
Assistant Professor  
Dept. of Civil Engineering

Organizing Committee Members

|                    |                     |
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| Mr. Pramod K R     | Assistant Professor |
| Mrs. Geetha T S    | Assistant Professor |
| Mr. Akshay J       | Assistant Professor |
| Mrs. Krupa T L     | Assistant Professor |
| Mr. Dhruva Raj M S | Assistant Professor |
| Mrs. Suma N G      | Assistant Professor |
| Mrs. Pallavi G A   | Assistant Professor |
| Mrs. Navya N       | Assistant Professor |

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Sapthagiri College of Engineering  
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Bengaluru - 560 057




**DEPARTMENT OF CIVIL ENGINEERING**

**REPORT ON 3 DAYS FDP ON "ADVANCED SURVEYING TECHNOLOGIES USING TOTAL STATION"**

A 3 days Faculty Development Program on "Advanced Surveying Technologies using Total Station" was conducted at Sir.M.V.Seminar Hall by department of civil engineering from 31<sup>st</sup> January to 02<sup>nd</sup> February 2019 in association with ICI and Sapthagiri College of Engineering Bangalore. The Resource Person for the Program was Hemanth Reddy. The program was attended by all the HOD's of Sapthagiri College of Engineering and the program also included participants(faculties) from different engineering colleges in and around Bangalore.



Master of Ceremony(MOC) for the entire program was Mrs. Navya N (Assistant Professor, Department of Civil Engineering). After self introduction of MOC, Mr.Rajiv (Associate Professor, Department of Civil Engineering) delivered the welcome address followed by the Pleasant Prayer song by our 4<sup>th</sup> sem student Ms.Nikhila. Further Dr.R.L.Ramesh (Head Of the Department, Department of Civil Engineering) explained us about the importance of FDP program and its necessity for the faculties. Further, the gathered lighted the lamp and sought the blessing of Dr.Sir.M.Visweswaraya. Following this, Dr.K.L.Shivabasappa(Principal, Sapthagiri College of Engineering) explained us the necessity of having the practical knowledge in Civil Field. He also enlightened the necessity of surveying with his own personal experiences. Further Mr.Akshay J (Assistant Professor,

  
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Department of Civil Engineering) briefly introduced the resource person of the program Hemanth Reddy. Later Mr.Hemanth Reddy also enlightened us about the need of Total Station and how is he helping the needy unemployees by creating the job opportunity by training about the Total Station. He also said that he is helping the Civil students of the final sem of different engineering colleges by providing them training as per the industry expectation and helping them to get placed easily. Followed by his motivational explanation about the employment and the quick work done using Total Station, the program came almost to an end and the vote of thanks for the morning indoor session was given by Mrs.Pallavi G.A(Assistant Professor, Department of Civil Engineering). After the vote of thanks, the MOC Mrs.Navya N thanked the gathering and asked the participants to stay there for further theoretical and practical sessions for the next 2 days. This was followed by the Tea Break for everyone who had gathered.

#### **31/01/2019(Day1)-**

After the Tea Break, the participants in and out of Sapthagiri College of Engineering and our Beloved HOD, Dr.R.L.Ramesh assembled at Sir.M.V.Seminar Hall for the theoretical Session.

Hemanth Reddy(Resource Person) started explaining about the need of Total station and highlighted the seven basic steps in total station. This included the introduction to surveying and methodologies. , Importance of accurate survey data to a civil engineering projects & Impacts of wrong surveys with live project experience examples, Brief on latest technologies and Instruments used as on today (Total Station, 5 DGPS, Li DAR, Drone UAV), Introduction to total station and seven basic steps in learning the total station operation. Further he circulated the 3 point Traverse sheet to all the participants assembled, which would be much helpful to note down the further readings in the field. After a lecture of about 45minutes, all the participants were asked to gather in the field (Sapthagiri College of Engineering Campus) for the practical demonstration.

Groups were made to ensure each and every participant will get the chance to operate the total station instrument.(Two total station instruments was available in Sapthagiri college of engineering and one total station instrument bought from the resource person was utilised for all the three days FDP). Prior to the lunch break, Mr.Hemanth Reddy practically demonstrated the basic seven steps of total station.

Post Lunch Break, the participants started practising individually the seven basic steps of total station for being perfect at their end. This lasted till the evening and the session ended for the day1.



#### **01/02/2019(Day2)-**

In the beginning session for day2, the participants were again practising the seven steps of total station inorder to ensure the perfectness. Further Mr.Hemanth Reddy practically demonstrated the 3 point traversing procedure. He also explained us how to enter the readings obtained from 3 point traverse procedure in the sheet provided on day1. Followed by his practical demonstration, the participants repeated the closed traversing procedure by repeated practice till the lunch break. Post lunch break, participants were given the demo and practice of

  
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Topographical Survey, area calculation, marking layouts etc. Till the end of the session for day2, the participants completely practised what was taught on day2.

**02/02/2019(Day3)-**

In the morning session of day3, participants practised what was taught on day2. Post lunch break after few more practise, all the participants were asked to again gather at Sir.M.V.Seminar Hall. Our beloved HOD, Dr.R.L.Ramesh thanked the resource person Hemanth Reddy for sharing his knowledge with us. Feedback was taken from all the participants about the pros and cons of the FDP. Participants were given the chance to ask questions/doubts which they had about total station and the doubts were all answered. Further, certificates were given to all the participants and a token of memory was given to Resource Person Hemanth Reddy. Due to the refreshments and accommodation arrangements made by our HOD and due to the impartial delivery of the practical knowledge by Hemanth Reddy the FDP received lot of positive feedback and it paved the way for participants to implement their ideas in projects in Total Station.



*[Handwritten Signature]*

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Chikkasandra, Hesaraghatta Road,  
Bangalore-560 057

*[Handwritten Signature]*

HOD  
HOD, Dept. of Civil Engg.  
S.C.E, Bangalore-560 057



### Report on

### **"Student Development Program On Object Oriented Concepts"**

(4<sup>th</sup> Feb 2019 – 8<sup>th</sup> Feb 2019)

Our Department has conducted Student Development Program on Object Oriented Concepts from 4<sup>th</sup> Feb 2019 – 8<sup>th</sup> Feb 2019 for 4<sup>th</sup> semester students. Students participated in all the sessions of the program enthusiastically. The faculties of our CSE Department took the responsibility to be the Resource person for this Program, where they delivered OOC concepts like Introduction to C++, Variables, Inline functions, Difference of C, C++ & JAVA, Inheritance, Polymorphism, Datahiding, and Encapsulation etc.

I would like to thank Management and Principal, SCE, Bangalore for their valuable financial support to conduct Student Development Program. I would also like to thank our HOD, Staff members for supporting & for the successful conduction of this Program.



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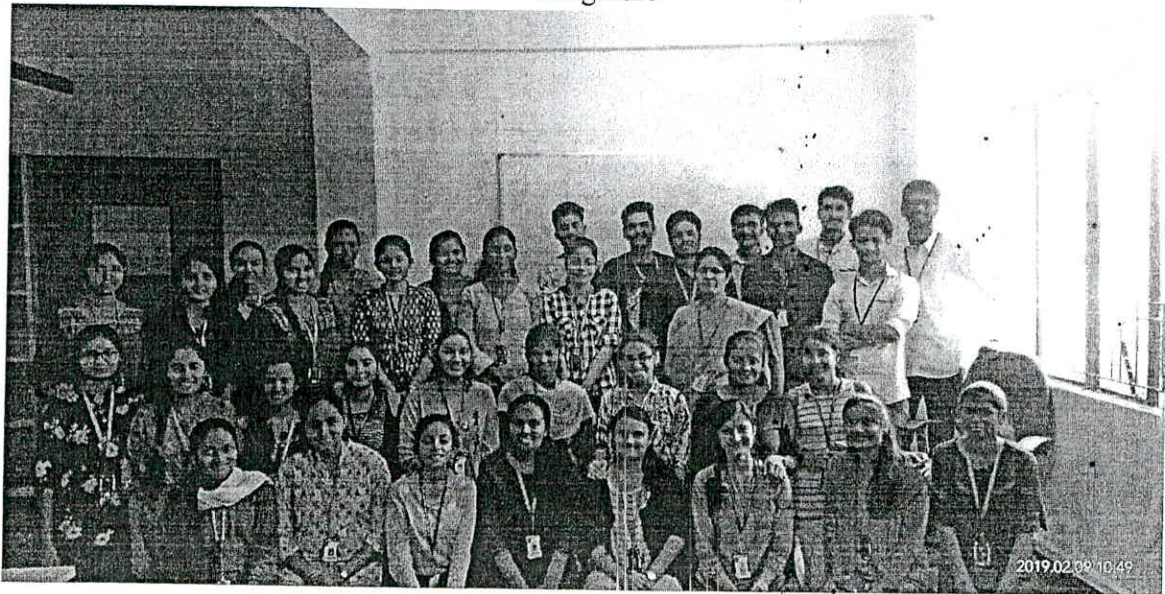
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# Workshop Report

## Topic: "Microsoft Certification on IoT"

By

Microsoft Technologies  
Bangalore



Dates: 06.02.2019 to 09.02.2019

Time: 8.30 AM to 4.30 PM

Venue: ALH 113 and CSE PG Lab, SCE Bangalore.

Speaker: Mr. Sumit Sharma

The workshop started with introduction to IoT (Internet of Things) and Python programming language with Raspberry Pi Microcontroller. Later simple programs were executed using Python programming.

Functions, syntax and programming of Python were taught using Python codes and hardware interfacing programs like LED, Relays were executed.

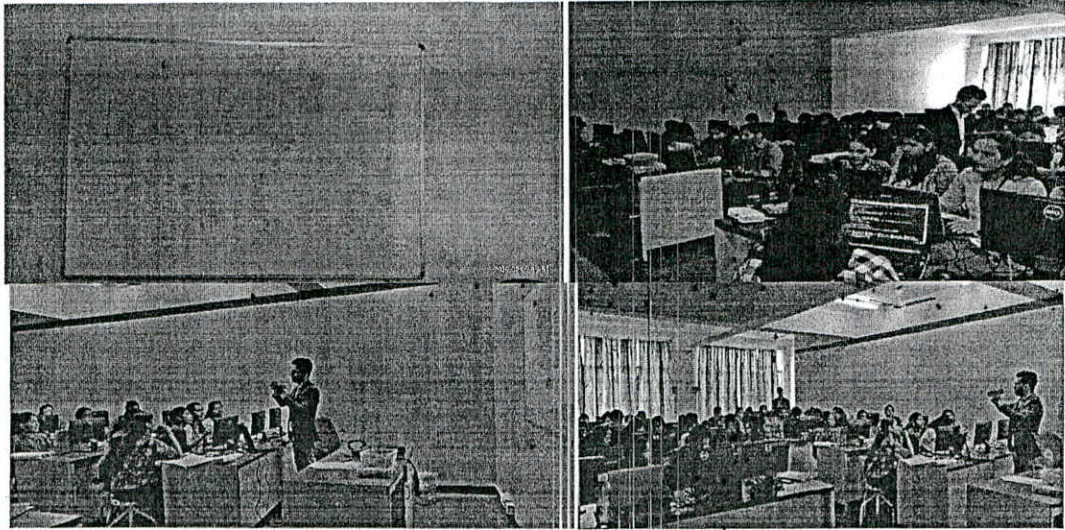
Later sensors and actuators like proximity sensor, LDR, RF detector, Stepper motor and DC motors interfacing using Raspberry Pi. Also Adafruit and IFTT application were introduced to control the lights using Google Assistant.

The certification was a platform to venture into the areas of IoT, Embedded, Python scripting, Raspberry Pi and many others. It is amongst some of the rapidly growing technologies today, with its applications in various aspects of embedded systems. It forms core research area within engineering and computer science disciplines too.

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*Students and faculties attending sessions of Microsoft Certification on IoT*

*Prof. Vani V & Prof. Vani A* 10/02/19  
 Guest Lecture/Workshop/FDP Co-ordinators

*Prof. Sandhya Rani MH* 12/02/19  
 HOD ECE

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

*Principal*  
 Sapthagiri College of Engineering  
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## Guest Lecture Report

### *Topic: "Recent trends on Networking"*

By

Mrs. Sunita Amingad  
Technical Manager  
Jetking  
Bangalore



Date: 16.03.2019

Time: 10.30 am to 12.30 pm

Venue: Microprocessor Lab, SCE Bangalore.

The session began with a discussion on Introduction to the network. Speaker briefed about the topics such as Scope of Network, Working of OSI Model, Firewall, types of routing and security in networking. Hands-on was conducted using packet tracer software on various topics, such as wired and wireless communication with security.

The session continued with the introduction to Computer Communication Networking and protocols basics. Speaker explained the different types of networks available and their applications. They also discussed about the usage of open source networking tools. They demonstrated the application and made the session more interactive.

Further speaker suggested the implementation ideas for their project. The session concluded with student's interaction with the questionnaire. Student found the session to be very useful as the lecture covered the topics beyond their syllabus in both lab as well as theory and given idea about practical applications of Computer networks.

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*Students and faculties attending the Guest lecture by Mrs. Sunita Amingad*

Prof. Vani V & Prof. Vani A  
Guest Lecture/FDP Co-ordinators

Dr. HC Sateesh Kumar  
HOD ECE  
18/3/2019

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

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# Workshop Report on Topic: "Refrigeration & Air Conditioning"

by

Mr. Ram Prasad L.V.,  
M/s. TCS ION Master i2R Solutions  
Bengaluru



Date: 20.03.2019

Time: 2.00 PM to 4.30 PM

Venue: Seminar Hall, SCE Bangalore.

The session was started by the introduction of the speaker. Speaker Mr. Ram Prasad L.V. started the session by the interest of the students in the field of design, thermal, quality, management and entrepreneurship. The gap between classroom teaching and Industry requirements from the students were explained and throw the light on the skill developments on the important topics. Introduction to Thermal engineering in industry was highlighted with some practical examples. Then the design of Refrigeration and Air conditioning for most of the applications were highlighted with some good examples. Importance of R & AC to work in industry was briefed to get hands on training for all the students.

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*Students and faculties attending sessions*

**SAPTHAGIRI INSTITUTE OF TECHNOLOGY**  
14/5, Hesarghatta Main Rd, Chikkasandra, Jalahalli West,  
Bengaluru, Karnataka 560057

Date : 20/03/2019  
Time : 2:00 PM

Mechanical Engineering  
6th Semester  
Section : 'A & B'



### ORIENTATION REPORT

Total Students Attended

75

Interested Students

71%

Interested, But need time

0%

Not Interested

29%

Workshop On :

**Refrigeration & Air  
Conditioning**

Trainer Profile :

**Ramprasad L V**

Refrigeration & Air conditioning expert  
with 20+years of work experience in  
product design & Technology  
innovation functions.

Trainer Feedback :

Students domain knowledge is not  
aligned with the industry requirement  
and basics are not well set.

Scope for Improvement

Basics for the project development on  
any technology should be strengthened  
by providing more hands-on to all the  
students.

The more information about innovative  
technologies should be given to the  
students with variety of case studies.

**TCS iON** Training  
Partner

**Dr. Tulsidas D.**

Guest Lecture/Workshop/FDP Co-ordinators

Principal

**Sapthagiri College of Engineering**  
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**Prof. P. Mahadevaswamy**

HOD ME

**Professor & Head**

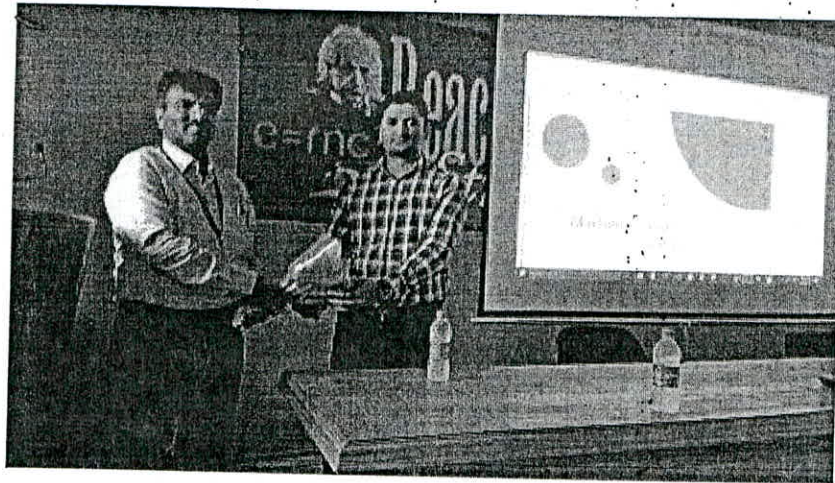
Department of Mechanical Engineering  
Sapthagiri College of Engineering  
Bengaluru - 560 057

# Guest Lecture Report

## Topic: "Machine Learning using Python"

By

**Mr. Chinmaya Mishra**  
Lead Data Scientist  
UTC, Bengaluru  
and  
**Mr. Patil**  
TCSion, Bengaluru



Date: 20.03.2019

Time: 10.30 am to 12.30 pm

Venue: Seminar Hall, SCE Bangalore.

The session began with a discussion on Introduction to the Machine learning and Python programming. Machine learning is the science of getting computers to act without being explicitly programmed. In the past decade, machine learning has given us self-driving cars, practical speech recognition, effective web search, and a vastly improved understanding of the human genome. Machine learning is so pervasive today that you probably use it dozens of times a day without knowing it.

The session continued with fundamentals of Machine Learning with types of Machine learning, Python programming language basics and Data Processing. They also illustrated some of the applications of machine learning.

Further speaker suggested the implementation ideas for their project. The session concluded with student's interaction with the questionnaire. Student found the session to be very useful and given idea about practical applications of Machine Learning.


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*Students and faculties attending the Guest lecture by Mr. Chinmaya Mishra*

  
 ni V & Prof. Vani A  
 ure/FDP Co-ordinators

  
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 Sapthagiri College of Engineering  
 14/5, Chikkasandra, Hesareghatta Main Road  
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 Dr. HC Sateesh Kumar  
 HOD ECE

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



### Report on

### **Workshop on Tableau – Data Visualization Tool**

Data visualization is the graphical representation of information and data. By using visual elements like charts, graphs, and maps, data visualization tools provide an accessible way to see and understand trends, outliers, and patterns in data.

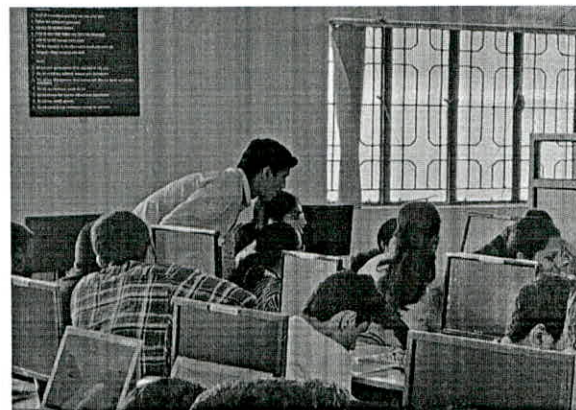
In the world of Big Data, data visualization tools and technologies are essential to analyze massive amounts of information and make data-driven decisions.

Data visualization is another form of visual art that grabs our interest and keeps our eyes on the message. When we see a chart, we quickly see trends and outliers. If we can see something, we

internalize it quickly. It's storytelling with a purpose. If you've ever stared at a massive spreadsheet of data and couldn't see a trend, you know how much more effective a visualization

can be.

Workshop was conducted from **20<sup>th</sup> March 2019** by Navigem – for all the 8th semester students took part in it and are immensely benefited.



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Principal  
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Bengaluru - 560 057

*[Handwritten signature]*  
Department Of Computer Science & Engg.  
Sapthagiri College of Engineering  
14/5, Chikkasandra, Hasarghatta Main Road,  
Bengaluru-560 057.



From

Date: 10/02/2019

HOD , CSE  
Sapthagiri College of Engineering  
Bangalore -57

To,

The Director,  
Navigem Data Ltd.  
Bangalore-560070  
Fax:

Dear Sir,

Sub: Workshop at Sapthagiri College of Engineering

This is with reference to your letter No: **PSTI/HOI/Col\_sem/2011-12**, Dated: 03/03/2018, requesting us to select the topic for the workshop. We request you to kindly arrange for the workshop on **"Data Visualization Tool"**. This subject will be of interest to the students of Computer Science & engineering. As per your request, Transport will be arranged for Pick-up and drop of the workshop. The date & time for the above seminar is 20/03/2018 at 10.00 AM.

Thanking you

Principal



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## One Day workshop on

# Principles of Concrete Mix Design on High Strength and Self Compacting Concrete"

26<sup>th</sup> April 2019

## Registration Form



Please fill in the following details and send to the address mentioned overleaf on / before 20<sup>th</sup> April 2019

Name:.....

College / Univ:.....

Department:.....

Designation:.....

Contact Address:.....

.....

.....

Email ID:.....

Mobile: .....

Sign of applicant:.....

Date:

Signature & seal of Head of

### PATRONS

Sri. G. DAYANAND  
Chairman & Managing Director

Sri. G D MANOJ  
Executive Director

### Convenor

Dr.R.L Ramesh  
Prof & HOD, Department of Civil Engg,SCE

### FACULTY COORDINATORS

Mr.Pramod K.R  
Asst. Prof, Dept.of Civil  
Mrs.Krupa T.L  
Asst. Prof, Dept of Civil

### STUDENT COORDINATORS

Manoj V                      Yamini J  
V U Aishwarya              Suprith S

### Important Dates

Last Date for Registration: April 20, 2019

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www.sapthagiri.edu.in , Ph no:080-28372800/01/02/03

In Association with



### Organized by:

## DEPARTMENT OF CIVIL ENGINEERING

&

## ICI BENGALURU CENTER

### One Day workshop on

"Principles of Concrete Mix Design on High Strength  
and Self Compacting Concrete"





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## 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), Phone: 080-28372800/1/2

### DEPARTMENT OF CIVIL ENGINEERING

## REPORT

### One Day workshop

On

### Principles of Concrete Mix Design on High Strength Concrete

### And Self Compacting Concrete

A one day workshop was conducted jointly by Sapthagiri College of Engineering and ICI on 26<sup>th</sup> April, 2019. The workshop started at 10.00 am, the function was presided by Sri. G. Dayanand and Chairman and Managing director, Sri. G D Manoj executive director, Head of Department, Civil Engineering Dr. R.L Ramesh and Chief Guest Er. Nagesh Puttaswamy Regional Head Technical Services Ultra Tech cements. The inaugural was initiated with a welcome speech by Prof. Sanjana G M, Civil Engineering Department, was followed by prayer and lighting of the lamp. Prof. Sanjana G M gave her presidential address which was followed by introduction to chief guest by Prof. Akshay J also he gave a brief idea about the workshop. 71 students of 3<sup>rd</sup> year and 63 students from final year Civil Engineering along with faculty members from various colleges attended the workshop.

The forenoon session included a discussion on introduction to Principles of Concrete Mix Design on High Strength Concrete handled by Er. Nagesh Puttaswamy. The main topics of discussion were ingredients and properties of concrete and importance of these properties in high strength concrete. The principles of mix design were discussed in detail and mix design procedure explained as per IS: 10262-2019. Er. Nagesh Puttaswamy gave a cash prize for the student who secured highest marks in concrete technology subject for the purpose of encouraging the students to learn and apply the technology effectively in concrete industry.

The afternoon session started at 2.00 pm after the lunch break. The workshop started with introduction of chief guest Dr. Shrishail B. Anadinni Professor Presidency University by Prof. Raghavendra R and Dr. Shrishail B. Anadinni gave a talk on self Compacting Concrete. self Compacting Concrete are the material that flows, placed into formwork and compacted under the influence of self weight only, without vibration. It can be used in the situation where vibration is difficult and reinforcement steel is highly congested in RCC. It adequately fills voids without

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segregation and bleeding, without vibration. Well graded or rounded coarse aggregates are desirable as they minimize cement paste content as well as admixture dosage. The maximum size of aggregate is generally limited to 12 mm for mass concreting.

After the workshop session, certificates were given to all the students and faculties of various colleges. The one day workshop session which followed was very informative and it was a good experience for all the students and faculties of various colleges.



Welcome speech by Prof.Sanjana G M



Honoring Er. Nagesh Puttaswamy



Er. Nagesh Puttaswamy giving lecturing on high strength concrete

  
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Welcome speech by Prof. Raghavendra R In afternoon session to Dr. Shrishail B. Anadinni



Honoring Dr. Shrishail B. Anadinni



Issuing certificate to other college faculty



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Bangalore-560 057

*L. L. Ramnath*  
HOD, Dept. of Civil Engg.  
S.C.E, Bangalore-560 057



**DEPARTMENT OF BIOTECHNOLOGY**



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HANDS ON TRAINING  
ON

# ANIMAL HANDLING TECHNIQUES

**BY**

**Dr. SUSHIL KUMAR MIDDHA**  
ASSOCIATE PROFESSOR, MLACW

**SRI. G DAYANAND**  
CHAIRMAN, SCE  
WILL PRESIDE OVER



**SRI. G D MANOJ**  
EXECUTIVE DIRECTOR, SCE  
GRACIOUS PRESENCE



**DR. K L SHIVABASAPPA**  
PRINCIPAL, SCE  
GUEST OF HONOR


**DR. NAGABHUSHANA K R**  
ADMINISTRATIVE OFFICER, SCE  
GUEST OF HONOR

**BIOTECHNOLOGY LAB**  
9.30 AM, TUESDAY  
30<sup>TH</sup> APRIL 2019

**PRASHANTH KUMAR H P**  
SHRISTI, BT FORUM &  
WORKSHOP CO-ORDINATOR

**DR. VEENA S MORE**  
HOD, BT

**FACULTY MEMBERS, STAFF AND STUDENTS,  
DEPARTMENT OF BT**

  
Coordinator Signature

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

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



**DEPARTMENT OF BIOTECHNOLOGY**

25-06-2019

From:  
The Head Of the Department  
Department of Biotechnology,  
SCE, Bengaluru-57

To:  
The Principal,  
SCE, Bengaluru-57.

Sub: Requisition to refund the amount Rs.10,966 spent for conducting  
Expert talk by Mrs. Vishika on 27-04-2019 and workshop on Animal  
Handling by Dr. Susheelkumar Middha on 30-04-2019.

Respected Sir,

With respect to the above subject, I request you to refund the amount Rs.10,966 spent for conducting Expert talk on "Insights on the influence of regulatory affairs in pharma industry." by Mrs. Vishika on 27-04-2019 and workshop on Animal Handling by Dr. Susheelkumar Middha on 30-04-2019. Please find the attached bills and do the needful.

| Sl.No. | Particulars                                 | Amount(Rupees) |
|--------|---|----------------|
|        | <b>Animal handling workshop expenditure</b> |                |
| 1.     | Shield stickers                             | 400            |
| 2.     | Mask and gloves+ Syringe                    | 570+17         |
| 3.     | Petrol                                      | 120            |
| 4.     | Transport—Ola- 26-04-2019                   | 395            |
|        | 27-04-2019                                  | 119            |
|        | 04-05-2019                                  | 365            |
|        | Bus charge                                  | 035            |
| 5.     | Food+ Juice(10 Tetra pack)                  | 205            |
| 6.     | Bouquet + roses                             | 200            |
| 7.     | Guest remuneration                          | 7500           |
|        | <b>Expert talk expenditure</b>              |                |
| 8.     | Gift  | 630            |
| 9.     | Tea and Biscuit                             | 410            |
|        | <b>Grand total</b>                          | <b>10,966</b>  |

Thanking You,

*[Handwritten signature]* 25/6/19

Yours faithfully

*[Handwritten signature]*  
25/06/2019  
(Dr. Veena S. Menon)  
Head of the Department  
Dept. of Bio Technology  
Sapthagiri College of Engineering  
No. 57/1, Chikkasandra  
Hesaraghatta Main Road  
Bengaluru-57

Coordinator Signature

*[Handwritten signature]*  
Principal  
Sapthagiri College of Engineering  
14/6, Chikkasandra, Hesaraghatta Main Road  
Bengaluru - 560 057

*[Handwritten signature]*  
Head of the Department  
Dept. of Bio - Technology  
Sapthagiri College of Engineering  
No. 57/1, Chikkasandra  
Hesaraghatta Main Road  
Bengaluru - 57



SAPTHAGIRI COLLEGE OF ENGINEERING  
(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New D  
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru- 560 057

## DEPARTMENT OF BIOTECHNOLOGY

EC ☒  
CS ☒  
IS ☒  
ME ☒  
EEE ☒  
Civil ☒  
Phy ☒  
Che ☒  
Mathe ☒  
Librarian ☒

Coordinator Signature

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

HOD Signature  
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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## DEPARTMENT OF BIOTECHNOLOGY

**Payment Voucher**

14/5, Chikkasandra, Hesaraghatta Main Road,  
Bangalore -560 057 Ph : 080- 28372801 to 803  
www.sapthagiri.org email : admin@sapthagiri.org

Voucher No. \_\_\_\_\_ Date: 30-07-19

Pay to: DR. SUSHEEL KUMAR MIDHA

Rupees in words: Seven thousand five hundred only

Being: Hand on Training on Animal Handling Techniques

Authorised by: \_\_\_\_\_ Recd. Above sum of Rs. 7,500/-

Paid by:

| Cash | Cheque | Draw on Bank |
|------|--------|--------------|
|      |        |              |

Receiver's Signature: [Signature]

[Signature]  
Coordinator Signature

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

[Signature]  
HOD Signature  
Head of the Department  
Dept. of Bio - Technol  
Sapthagiri College of Engineering  
No. 57/1, Chikkasandra  
Hesaraghatta Main Road  
Bangalore -57

## DEPARTMENT OF BIOTECHNOLOGY

### Work Shop-2018-2019

As per the principal direction and permission the Department organized 'Hands on training on animal handling techniques" by Dr Sushil Kumar Middha, Associate professor, Maharanilaxmi Amani College for Women on 30<sup>th</sup> April 2019 and 1<sup>st</sup> May at 9:30 AM in Biotechnology lab in the presence of our Principal Dr. K L Shivabasappa, Administrative officer Dr. Nagabhushana KR, Head of the Biotechnology Department Dr. Veena S More, Forum co-coordinator Prof. Prashanth Kumar HP, faculty members and students of Biotechnology.

The session started with introduction of the guest by Prof. Prashanth Kumar HP. The guest delivered a talk for an hour about the importance of use of animals in the research, how to handle them with care, the preparations and requirements to be considered for animals maintainances. Later on session started with hands on training of animals to the students by Mr Avijith and Mr. Abhishek E. The students in a group learn how to hold the mice, recognition of sex, difference between mice and rat, how to draw the blood from animals. The workshop gave the platform for the students to handle the animals so that they can implement when they are doing their projects.

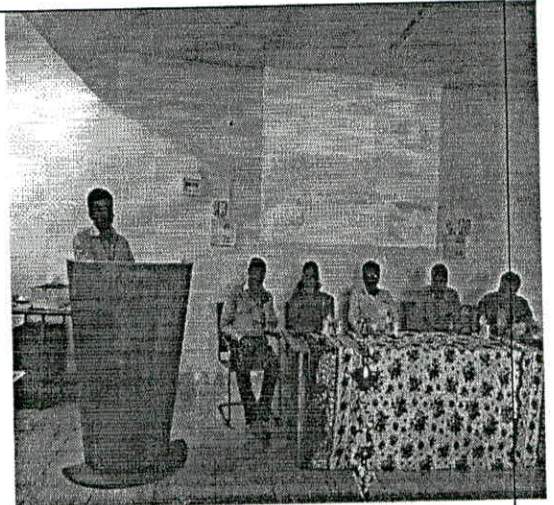
  
Coordinator Signature

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

  
HOD Signature  
Head of the Department  
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**DEPARTMENT OF BIOTECHNOLOGY**



**Faculties and Students attend in the Seminar**

Coordinator Signature

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

Head of the Department  
Dept. of Bio-Technology  
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