

**2018-2019**

**6.3.3 List of professional development /administrative training programs organized by the institution for teaching and non-teaching staff during academic year 2018-19**

<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>
6/6/2019		VTU exams Roles and Responsibilities	<b>3--8</b>
30/1/2019 - 31/1/2019	Machine Learning and Tools		<b>9—16</b>
21/1/2019 - 25/1/2019	Food Adulteration And Its Analysis		<b>17—26</b>
21/1/2019 - 25/1/2019	Repair And Rehabilitation Of Structures		<b>27—34</b>
21/1/2019 - 25/1/2019	IOT and Sensors Networks		<b>35—43</b>
21/1/2019 - 25/1/2019	PLC & SCADA with hands on training		<b>44—50</b>
21/1/2019 - 25/1/2019	Wireless Networks		<b>51—58</b>
21/1/2019 - 25/1/2019	Composites and Light Metals		<b>59—64</b>
6/8/2018	IPR Protection and Procedure		<b>65—70</b>
6/8/2018		Talk on Workplace communication skills	<b>71—77</b>
23/7/2018 -25/7/2018	Teacher Empowerment		<b>78—89</b>
16/7/2018 -20/7/2018	Civil engineering software		<b>90—97</b>
19/2018 -21/7/2018	Android and Mobile Application Development		<b>98—104</b>
16/7/2018 -20/7/2018	Machine Learning		<b>105—114</b>
16/7/2018 -20/7/2018	Industrial drives and Applications		<b>115—121</b>
16/7/2018 -20/7/2018	Internet of Things		<b>122—128</b>
16/7/2018 -20/7/2018	Kinematics and Dynamics of Machineries		<b>129—134</b>
12/7/2018 - 14/7/2018	Recent Advances in Functional materials		<b>135—140</b>
12/7/2018 - 14/7/2018	medicinal plant tissue culture for production of formulation of drugs		<b>141—149</b>



## Sapthagiri College of Engineering

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

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

Phone: 080-28372800/1/2

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Fax: 080-28372797

15-19

### CIRCULAR

All Nonteaching Faculties are hereby informed to attend Seminar on VTU Exam Conduction Roles and Responsibilities on 6<sup>th</sup> June 2019.

H R Ranganatha

HOD ISE

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

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

Principal

Sapthagiri College of Engineering  
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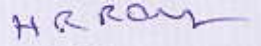
### Schedule

Date: 06/06/2019

Time	Topics
10:30 am To 12:00 pm	VTU Exam Conduction Roles and Responsibilities



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



HOD

Dept. of ISE

Dr. H.R. Ranganatha

Prof. & H.O.D

Dept. of Information Science & Engg.

Sapthagiri College of Engineering

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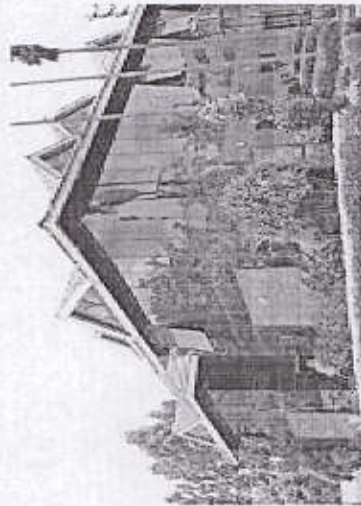


**Seminar for Non teaching faculties**  
On

**“Exam Conduction roles and responsibilities for the non teaching staffs”**

On 06/06/2019

**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 Giriyaappa, 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 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.

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

### About the FDP:

The objective is to discuss the roles and responsibilities of all the non teaching staff in conduction of exams.

### Resource Person:

**Dr Krishna**  
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)



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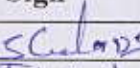
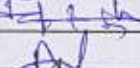




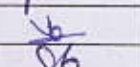
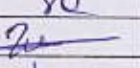

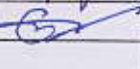
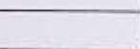

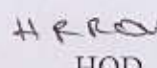
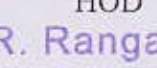
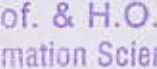
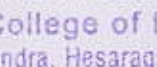
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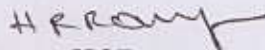
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Fax: 080-23372797

## Seminar on "VTU Exam Conduction Role and Responsibilities" Attendance

Sl No.	Name	Sign
1	Shankar D3	
2	Prasannaiah	
3	Nandana 12	
4	Aschana	
5	Ashwini 3	
6	Hopresha H.K.	
7	Bateesh Duttar	
8	Siddagangiah	
9	Noushadhara	
10	Parvathamma	
11	Veeyegowda	
12	KAMALA S	
13	UMESHA BN	
14	Naganna G.C	
15	Mangala Gidori	
16	Chandramohan	
17		
18		

  
HOD

Dr. H.R. Ranganatha

Prof. & H.O.D

Dept. of Information Science & Engg.

Sapthagiri College of Engineering

# 14/5 Chikkasandra, Hesaraghatta Main Road

BENGALURU-560 057

  
Principal

Sapthagiri College of Engineering

Chikkasandra, Hesaraghatta Road,

Bangalore-560 057

## Seminar on VTU Exam Conduction Roles and Responsibilities

No of participants =15

Sapthagiri College of Engineering conducted a seminar on VTU Exam Conduction Roles and Responsibilities for the Nonteaching staffs by Dr Krishna Professor and Head department of Chemistry on 6.6.2019 in the seminar hall. He discussed the responsibility of each non-teaching staff members for the smooth conduction of the examination.



## Non-Teaching staffs participating in the seminar

  
Principal  
Sapthagiri College of Engineering  
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Coordinator





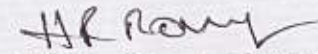
# Sapthagiri College of Engineering


Bangalore-560057

## Certificate

This is to certify that Mr./Ms. SHANKAR D.S

Of SAPTHAGIRI COLLEGE OF ENGINEERING has participated in the seminar on "VTU Exam Conduction roles and Responsibilities" on 6<sup>th</sup> June 2019 organized by the Department of Information Science & Engineering, Sapthagiri College of Engineering.

  
HOD, Dept of ISE

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

  
Principal



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

**SAPTHAGIRI COLLEGE OF ENGINEERING**

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Fax: 080-28 372797

**ACADEMIC YEAR 2018-2019**


Date: 12/01/2019

**CIRCULAR**

Faculties are hereby informed about Department is Conducting a Two days FDP on **Machine Learning and Tools** for our faculties for their Technical Developments on 30<sup>th</sup> Jan 2019 and 31st Jan 2019. Interested faculties can register their names with Prof A Latna, Assistant Professor and Prof Madhushree, 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



**SAPTHAGIRI COLLEGE OF ENGINEERING**  
**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**  
 #14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru- 560 057  
**2 DAYS WORKSHOP ON**  
**"MACHINE LEARNING AND TOOLS"**  
**SCHEDULE**

Day	Time	Activity
30/1/19	8.30-9.00 AM	Registration
	9.00-9.30 AM	Inauguration Song
		Welcome Speech
		Lamping
		Introduction about Resource Person
	9.30- 10.30 AM	Introduction to Machine learning, Regression Problems, Simple Linear Regression and Multiple linear Regression
	10.30-10.45 AM	Coffee Break
	10:45- 12:30 PM	Classification Problems: kNN Nearest Neighbours- Dimensionality Reduction, PCA
	12.30-1.30 PM	Lunch Break
31/1/19	1:30- 3:00 PM	Machine Learning with Python, Regression and Classification Hands-on
	3.00-3.15 PM	Tea Break
	3.15-4.30	Machine Learning with Python, Regression and Classification Hands-on
	8:30- 10:30 AM	Unsupervised Classification (K-Means, fuzzy C means Clustering)
	10:30-10:45 AM	Coffee Break
	10:00- 12:30 PM	Introduction to Artificial Neural Networks, Clustering using Neural Network (SOM)
	12.30-1.30 PM	Lunch break
	1:30- 4:00 PM	Machine Learning with Python – Unsupervised classification, ANN Hands-on
	4.00-4.30 PM	Hi Tea

Principal  
 Sapthagiri College of Engineering  
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 Bangalore-560 057

Certificate Distribution and Vote of Thanks

Two days FDP  
on

**“Machine Learning & Tools”**

30 – 31 Jan 2019

**Registration Form**

Name of the Participant:

.....

Designation:

.....

Qualification:

.....

Experience:.....

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. K.L. Shivabasappa,**

Principal, SCE, Bengaluru

**Dr. Nagabhushana K.R.,**

Administrative Officer, SCE, Bengaluru

**Technical Advisors**

**Dr. Kamalakshi Naganna,**

Prof. & Head (IC), CSE, SCE, Bengaluru.

**Ms. Chaitra,**

Prof. CSE, Bengaluru

**Convener**

**Prof. Suriya Prakash.J**

Asst Prof., CSE, SCE, Bengaluru

**FDP Coordinators**

**Prof. Latha A.**

Asst. Prof., CSE, SCE, Bengaluru

**Prof. Madhushree.**

Asst. Prof., CSE, SCE, Bengaluru

**Prof. Mamatha A.**

Asst. Prof., CSE, SCE, Bengaluru

**Prof. Nanda M B.**

Asst. Prof., CSE, SCE, Bengaluru

**Prof. Nandhini N.**

Asst. Prof., CSE, SCE, Bengaluru

**Prof. Arun Kumar S.**

Asst. Prof., CSE, SCE, Bengaluru

**Prof. Srikanth Gowda R.**

Asst. Prof., CSE, SCE, Bengaluru

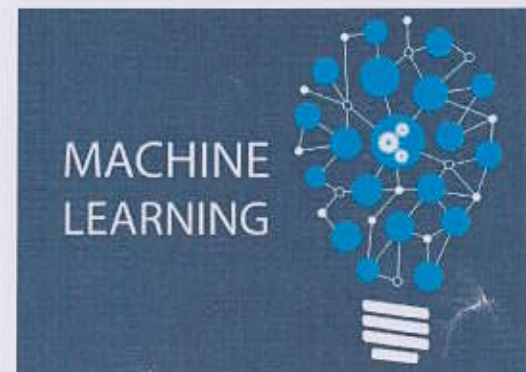


**2 Days Faculty Development Programme**

on

**MACHINE LEARNING & TOOLS**

from 30 –31 Jan 2019



Organized by

Department of

Computer Science and Engineering



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### About the FDP:

Its objectives are

- To enhance the skill sets of faculties in the Recent Developments in Machine Learning through Hands on sessions on Python programming
- Hands-on sessions in Machine learning and its tools which facilitate for research work.
- Enable faculties to handle Subjects smoothly in upcoming the University Curriculum.

### Resource Persons:

- **Dr.Suguna.R**  
Professor, Dept. of CSE
- **Dr.Shayamala Devi.**  
Professor, Dept. of CSE  
Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology, Avadi, Chennai, India.

### Who Can Attend the Workshop?

The workshop is open for the faculty of CSE,ISE,ECE and MCA Departments.

### Registration

The registrants are required to submit a scanned copy of the filled application approved by their HOD/Principal to the following Email.

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

### Note:

- Rs.500 as Registration Fees to be paid On Spot.
- The number of participants is **limited to 30 (First Come First Serve basis).**
- The selected participants will be informed by email/phone on or before 29-Jan-2019.

### Important Dates

Last date for receipt of completed application through post or email: 28-Jan-2019.

Confirmation for participants will be send through e-mail/Phone: 29-Jan-2019.

Workshop starts with registration on 30-Jan-2019 at 8:30 am.

### Address for Communication/Registration

#### Prof. Latha.A.

Assistant Professor, CSE

Ph: 7019706565

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

#### Prof. Madhushree.

Assistant Professor

Ph: 9844379873

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

### Email-id for registration:

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

### Postal Address :


Machine Learning & Tools-FDP

Department of Computer Science and Engineering,

Sapthagiri College of Engineering

#14/5, Chikkasandra, Hesaraghatta Main Road,

Bengaluru. Karnataka 560057

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



**Department of Computer Science & Engineering**

**Registration Form**

Sl No	Name of the faculty	College Name	Email-Id	Ph No	Amount	Signature
1	Sowmya B	SaIT	Sowmya.ab26@gmail.com	9421079776	500	[Signature]
2	Manasa K.N	SaIT	manasakn90@gmail.com	9066651733	500	[Signature]
3	Ramya R	S.C.E	ramyar@sapthagiri.edu.in	8884816537	-	[Signature]
4	Divya Shree G	S.C.E	divyashreeg@sapthagiri.edu.in	7760860352	-	[Signature]
5	Bhavya Shree	DSIT	bhavyashreecse@gmail.com	7411684198	500	[Signature]
6	Anitha K	SaIT	anithakanniah@gmail.com	9141335282	500	AK
7	Mallamma G G	SaIT	mallammagoudar79@gmail.com	8050807503	500	Mallamma
8	Usha T	SaIT	usha91t@gmail.com	9008066300	500	[Signature]
9	Hemanth YK	East-West	hemanthyk@ewit.edu	9743734589	500	[Signature]
10	Neethu P.S	Anna University (ICE)	ps.neethu@gmail.com	9003039083	(paid to SP sir)	[Signature]
11	SHILPA V.	SCE	shilpav@sapthagiri.edu.in	9538959760	-	[Signature]
12	Deepa S.R	KSIT	deepasr@ksit.edu.in	9880101980	500	[Signature]
13	PRASHANTH KUMAR HP	SCE	prashanthkumarhp@sapthagiri.edu.in	9916040777	-	[Signature]
14	Dr. KIRAN S	SCE	kirans@sapthagiri.edu.in	9902696009	-	[Signature]
15	Swetha N	EWIT	Swetha@ewit.edu	9008057121	500/-	[Signature]
16	Padmavathi C	SCE	padmavathic@sapthagiri.edu.in	8914416936	-	[Signature]
17	Prathibha P	SCE	prathibhap@sapthagiri.edu.in	9448914448	-	[Signature]
18	Preethi T.S	SCE	ts.preethi@gmail.com	9742844413	-	[Signature]
19	Jhansik	SCE	jhansik@sapthagiri.edu.in	7411353490	-	[Signature]
20	Praveen Naik	Christ University	praveen.naik@christuniversity.com	9945151588	500/-	[Signature]
21	Kavya N-L	SCE	kavyanl@sapthagiri.edu.in	9731731569	-	[Signature]
22	Shilpa M	SCE	Shilpam@sapthagiri.edu.in	9632260456	-	[Signature]
23	Abhishek K.L	SCE	abhishekkl@sapthagiri.edu.in	8553055076	-	[Signature]
24	Vani B	SaIT	vanib@gmail.com		500/-	[Signature]
25	Praneetha G.N	SCE	praneethagn@sapthagiri.edu.in	7411935429	-	[Signature]

Principal



## SAPTHAGIRI COLLEGE OF ENGINEERING

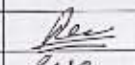
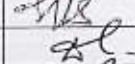

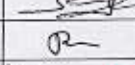
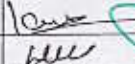
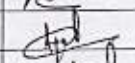
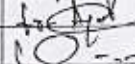
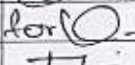
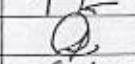


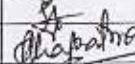


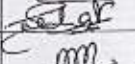
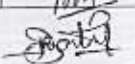


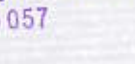

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Web: www.sapthagiri.edu.in, Email: principal@sapthagiri.edu.in

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

### Department of Computer Science & Engineering

Sl. No	Name of the faculty	college name	Email id	phone number	Amount	Signature
1.	Prof. Prerana Chaithe	SCE	prerana.chaithe@sapthagiri.edu.in	9886715998	-	
2.	Prof. Sangeetha Bini	SCE	sangeethabini@gmail.com	9946041563	-	
3.	Prof. DEVARAJA S	SCE	devarajas@sapthagiri.edu.in	9739460083	-	
4.	Prof. Ravi Chandar M	SCE	RaviChandarM@sapthagiri.edu.in	9667450465	-	
5.	Prof. Sanjay Kumar T.H	SCE	sanjaykumarth@sapthagiri.edu.in	886123349	-	
6.	Rakha S.N	SCE	rekhasn@sapthagiri.edu.in	9448387319	-	
7.	Karthik C	SCE	karthik.nc@sapthagiri.edu.in	8880666613	-	
8.	Vinay H.C	SCE	vinayhc@gmail.com	8792526968	-	
9.	P. Agalya	SCE	agalya@sapthagiri.edu.in	9448509719	-	
10.	S. Shobha	SCE	shobhas@sapthagiri.edu.in	9886735946	-	
11.	Vani A	SCE	vaninageshth@gmail.com	9686575771	-	
12.	Vani V	SCE	vaniv81@gmail.com	9538441939	-	
13.	Meghana N.M	SCE	meghana@sapthagiri.edu.in	7829372304	-	
14.	Ambika S	SCE	ambika@sapthagiri.edu.in	8147232284	-	
15.	Sumya Somnath	SCE	sumya.somnath@sapthagiri.edu.in	8884775216	-	
16.	Nasirini D.B	SCE	nasirini.db@sapthagiri.edu.in	8971857004	-	
17.	Sumangala S.J	SCE	sumangalasj@sapthagiri.edu.in	9449452864	-	
18.	Sheetal T.G	SCE	SheetalTG@sapthagiri.edu.in	8217720307	-	
19.	Dr. Sasmitha Mahapatra	SCE	sasmithamahapatra@sapthagiri.edu.in	9035960301	-	
20.	Basavaraj K.N	EEE	rajuknb@gmail.com	9685980808	-	
21.	Supreetha S	SCE	supreetha.s3191@gmail.com	9620986870	-	
22.	K. Ravi Kumar	EEE	SheetalKRC@gmail.com	9448205144	-	
23.	Sheha G	SCE	yadusneha@gmail.com	9449074748	-	
24.	Anusudha PADAYE	SCE	anusudha@sapthagiri.edu.in	8123409161	-	
25.	Ramanagouda. S. Reddy	SCE	rsparthi20@gmail.com	8861097711	-	
26.	Srikanth M.S	SCE	Srikanthms@sapthagiri.edu.in	9008401136	-	

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Bangalore-560 057

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



## REPORT ON

**Five days FDP on “Machine Learning and its Tools” on 30<sup>th</sup> Jan 2019 to 31<sup>st</sup> Jan 2019**

This FDP provides an exposure to the participants about the fundamental & advanced concepts of Machine Learning of these concepts in allied with challenging applications.

In computer science, **Machine Learning** is the use of a digital computer to process data through an algorithms.


In data processing, **preprocessing** is an effective method to reduce needed data from dataset. This method fetches minimal data rather than entire data.



### **Algorithms**

Machine Learning are used to detect the accuracy. Algorithms can be performed by:

- Dimension Reduction Algorithm.
- Classification Algorithm.



  
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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. Vani. A.

Successfully participated in the Faculty Development Program on "Machine Learning and Tools" from 30/01/2019 to 31/01/2019 organized by Department of Computer Science & Engineering, Sapthagiri College of Engineering, Bengaluru-560057.

  
HOD Head of the Department  
Computer Science Engineering  
Sapthagiri College of Engineering  
Bengaluru-560057

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

  
PRINCIPAL

Principal

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


Principal




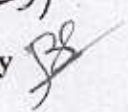
Date: 27/12/2018

Meeting Circular

A meeting is scheduled on 28/12/2018 (Friday) at 12:30 PM in the Department of Biotechnology. This meeting will be regarding the conduction of FDP and to identify the coordinators for this event.

HOD   
27/12/2018  
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  
Chikkasandra, Hesaraghatta Road,  
Bangalore-560 057

**Date: 18-1-2019**

**Circular**

Faculty of Department of Biotechnology and Department of Basic science members are here by informed to attend fivedays faculty development program titled as "**Food Adulteration and its analysis**" from **21-1-2019 to 25-1-2019**. All the Faculty register their names with Faculty Coordinator **Prof Soumya C, Dept of Biotechnology**.

*Veeve*

*Neesa*

**HOD, BT**

**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 *[Signature]*

2. HOD of Chemistry *[Signature]*

*[Signature]*  
**Principal**

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





**DEPARTMENT OF BIOTECHNOLOGY AND DEPARTMENT OF BASIC SCIENCE**  
**FIVE DAYS FACULTY DEVELOPMENT PROGRAMME**

***"Food Adulteration and its analysis"***

**SCHEDULE**

Time Date/Day	09.30AM To 10.30AM	11:00AM To 12:00PM	12:00AM To 1:00PM	2:00 PM To 3:00PM	3:30 PM To 4:30PM
21-1-2019 Monday	Registration and Inauguration	Food adulteration and its types Dr. M T Swamy, Professor & Head, Sambhram Institute of Technology,Bangalore	Food Poisoning and Intoxication Prof. Vinutha Moses Asst. Professor Dept. Of Chemical Engg. RVCE, Bangalore	Lab session 1  Common Food adulterants Identifications	
22-1-2019 Tuesday	Milk Preservatives and Adulterants  Dr. Rajendra Asst. Professor, Dept. Of Biotechnology, Sir MVIT,Bangalore	Modern analytical methods for the detection of food fraud and adulteration by food category.  Prof Shasikala, Dept. Of Physics, SCE		Role of lactic acid bacteria on the yogurt flavour  Dr. Arwini Sharma, Dept of Biotechnology, RVCE, Bangalore	
23-1-2019 Wednesday	Infrared spectroscopy combined with attenuated total reflectance (ATR) and partial least squares-discriminant analysis (PLS-DA)  Dr. Mahesh, Professor, Dept. Of Physics AIT, Bangalore	Human Health impacts resulting from food adulterations  Dr Hemanth, SIIMS & RC Bangalore	Detection and identification of multiple adulterants in plant food supplements using attenuated total reflectance-Infrared spectroscopy.  Dr. Sharath, Asst. Professor, Dept. Of Biotechnology MSRIT, Bangalore	Lab session 2 (Demo)  Quality check of food from adulteration using sensors  Dr. Shilpa Sivasankar, Asst. Professor, Dept. Of Biotechnology AIT Bangalore	
24-1-2019 Thursday	Food adulteration and consumer awareness  Dr. Soumitra Banerjee CIIRC,JIT, Bangalore	Digitalization and improved technology to revolutionize the present scenario of food safety DR. Divakara, Asst. Professor, TOCE, Bangalore	Trends of food adulteration in India and its remedies  Dr. Manjunath, ASST. Professor, MSRIT,Bangalore	Lab session 3 : Analysis of Food adulterants  Dr. Manjunath, Asst. Professor, MSRIT, Bangalore	
25-1-2019 Friday	What's NOT to eat--food adulteration in the context of human biology Dr. Ravi Kumar K Professor & Head, CIIRC,JIT, Bangalore		Valedictory Function		

10:30 AM-11:00 AM and 3:00 PM to 3:30 PM-Tea Break 1:00PM to 2:00PM Lunch Break

Head of the Department  
Dept. of Bio-Technology  
Sapthagiri College of Engineering  
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Bangalore-560 057



Registration Form  
Faculty Development  
Programme

*Food Adulteration and its  
analysis*

21-1-2019 to 25-1-2019  
Monday to Friday

Participant Details

Name : \_\_\_\_\_  
Dept : \_\_\_\_\_  
College : \_\_\_\_\_  
Mobile : \_\_\_\_\_  
Email ID : \_\_\_\_\_

Signature of the Participant

PATORNS

*Sri. G Dayanand*  
*Chairman, SCE*

*Sri. G D Manoj*  
*Executive Director, SCE*

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

ORGANISERS

Dr. Veena S More  
HOD, BT

Dr B S Krishna  
HOD, Chemistry

Dr. Jagadeesh Gowda  
HOD, Physics

Co-ordinators

*Prof. Soumya C*  
*AP, Dept of BT*

*Prof. Kavya MV*  
*AP, Dept of BT*

Principal  
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Bengaluru - 560 057



SAPTHAGIRI COLLEGE OF ENGINEERING  
Affiliated to VTU, Belagavi, Approved by AICTE, New Delhi

Five Day  
Faculty Development Programme  
on

*Food Adulteration  
and its analysis*

21-1-2019 to 25-1-2019

Monday to Friday

Department of Bio-  
Technology  
&  
Department of Basic  
Sciences





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**FDP REPORT ON**

**FOOD ADULTERATION AND ITS ANALYSIS**


The FDP programme on Food Adulteration and its analysis was organized for the faculties in Sapthagiri College of Engineering for the duration of 5 days.

Food adulteration is the addition or removal of any substances to or from food, so that the natural composition and quality is affected. Adulterated food is impure, unsafe and not wholesome. Food can be adulterated intentionally and accidentally. Unintentional adulteration is a result of ignorance or the lack of facilities to maintain food quality. This may be caused by spillover effect from pesticides and fertilizers. Inappropriate food handling and packaging methods can also result in adulteration.

The objective of the programme was to create awareness about food adulteration and its impact on human health and to demonstrate some methods used for detection of adulteration.

The speakers highlight on the routes and reasons behind the food adulteration seen in the India and emphasis on case study- Maggi. They also emphasized on plant food supplements adulterated with multiple pharmaceutical compounds which cause a threat to health and also can interfere with other medicinal treatments. The Doctor from SIMS delivered the lecture on how adulterants influence the hormone synthesis. The speakers also highlighted conventional chromatography-based methods for detection of chemical which are based on human-observation and development of surface plasmon response sensors for real-time monitoring which as a capability of detection of very low concentrations of adulterated chemical and biological agents which can be detected at the output and can be related to the concentration of the chemical species present at the point. The speaker Prof Shasikala delivered the talk on analytical techniques used to identify adulteration in different food categories (Animal origin, plant etc.) involve sensory, physicochemical, DNA-based, chromatographic and spectroscopic methods. They also highlighted on the Food Safety and Standard Act and finally focused on the remedies to the problem of food adulteration.

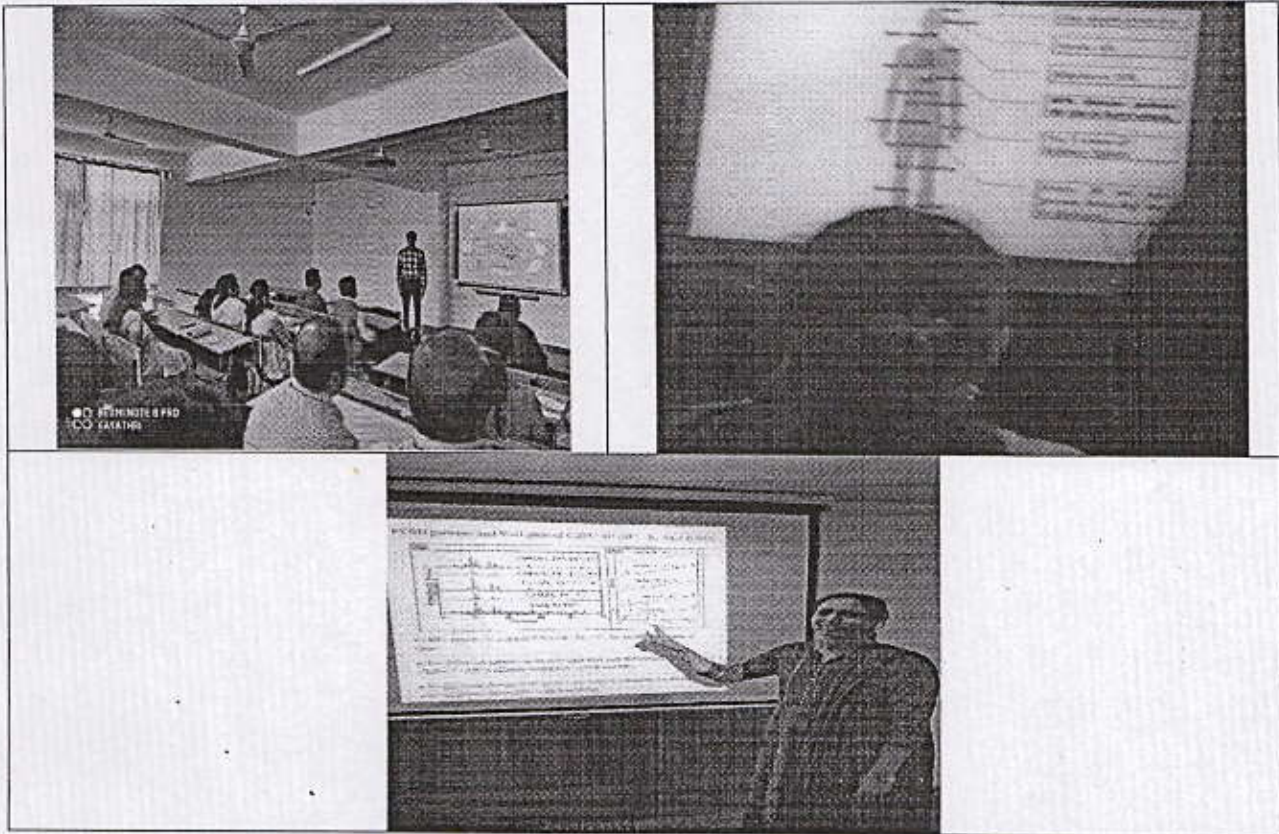
The programme brought a clear picture on present scenario of food adulteration in India.

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



**FDP REPORT ON**

**FOOD ADULTERATION AND ITS ANALYSIS**



*[Handwritten Signature]*

Signature of the FDP Co-Ordinator

*[Handwritten Signature]*

Signature of the HOD

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

*[Handwritten Signature]*

Principal

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





Event Name: Food Adulteration and its analysis  
Date: 21-1-2019 to 25-01-2019

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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 - 56





**Event Name: Food Adulteration and its analysis**  
**Date: 21-1-2019 to 25-01-2019**

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

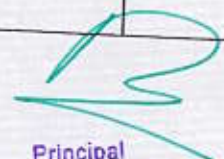
Head of the Department  
Dept. of Bio-Technology  
Sapthagiri College of Engineering  
No. 57/1, Chikkasandra  
Hesaraghatta Main Road  
Bangalore -57

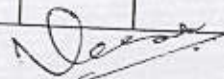


**ATTENDANCE LIST**

Event Name: Food Adulteration and its analysis  
Date: 21-1-2019 to 25-01-2019

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	Mr. Gnanendra D.S										
2	Mrs. Shashikala B.S										
3	Dr. Keshavamurthy B.										
4	Mr. Devaraga. C										
5	Ms. Bhaskar D										
6	Ms. Shwetha. M.										
7	Ms. Latha K.M										
8	Ms. Arupama B.G										
9	Dr. Hassina C										
10	Dr. Rangaswamy D.R										
11	Ms. Namasathu V										

  
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  
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Hesaraghatta Main Road  
Bangalore - 57





# 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

Five Days Faculty Development Programme  
on

**"FOOD ADULTERATION AND ITS ANALYSIS"**

## CERTIFICATE OF PARTICIPATION

This is to certify that Dr/Mr/Ms/Mrs. Kavya M.V  
of Sapthagiri College of Engineering has attended **Five days Faculty**  
**Development Program** from **21-1-2019 to 25-01-2019** at Sapthagiri College  
of Engineering, Bengaluru - 560057.

Coordinators

  
Convener

  
Principal

  
Principal

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





DEPARTMENT OF CIVIL ENGINEERING

SAPTHAGIRI COLLEGE OF ENGINEERING

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

Phone: 080-28 372800/1/2

Fax: 080-28 372797

ACADEMIC YEAR 2018-2019

Date: 12/18/2019

CIRCULAR

Faculties are hereby informed that the department is conducting a faculty development programme titled as "' Repair And Rehabilitation Of Structures' for days from 21<sup>st</sup> Jan to 25<sup>th</sup> Jan 2019. Interested faculties can register their names with Prof. Geetha T S

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

  
HOD

Dept. of civil



**SAPTHAGIRI COLLEGE OF ENGINEERING**

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Fax: 080-28 372797

**ACADEMIC YEAR 2018-2019**

**Detailed Syllabus & Schedule**

**DAY 1 - Introduction**

**Date: 21/01/2019**

Time	Topics
08:30 am To 10:15 am	Inauguration of FDP At Sapthagiri College Of Engineering
Tea Break	
10:30 am To 12:30 pm	Maintenance And Repair Strategies
Lunch Break	
01:30 pm To 03:00 pm	Maintenance, Repair And Rehabilitation, Facets Of Maintenance, Importance Of Maintenance.
Tea Break	
03:15 pm To 04:00 pm	Various Aspects Of Inspection, Assessment Procedure For Evaluating Damaged Structures, Causes Of Deterioration

**DAY 2 - SERVICEABILITY AND DURABILITY OF CONCRETE**

**Date: 22/01/2019**

Time	Topics
08:30 am To 10:15 am	Quality Assurance For Concrete – Strength, Durability And Thermal Properties,
10:30 am To 12:30 pm	Cracks In Concrete – Causes, Effects (Effects Due To Climate)
01:30 pm To 03:00 pm	Effects Due To Temperature Variation, Sustained Elevated Temperature
03:15 pm To 04:00 pm	Corrosion – Effects Of Cover thickening And Cracking

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Phone: 080-28 372800/1/2

Fax: 080-28 372797

**ACADEMIC YEAR 2018-2019**

**DAY 3 – MATERIALS FOR REPAIR**

**Date: 23/01/2019**

Time	Topics
08:30 am To 10:15 am	Introduction To Special Concrete And Mortar
Tea Break	
10:30 am To 12:30 pm	Concrete Chemicals And Special Elements For Accelerated Strength Gain.
Lunch Break	
01:30 pm To 03:00 pm	Expansive Cement, Polymer Concrete, Sulphur Infiltrated Concrete
Tea Break	
03:15 pm To 04:15 pm	Ferro Cement, Fibre Reinforced Concrete

**DAY 4 – TECHNIQUES FOR REPAIR AND PROTECTION METHODS**

**Date: 24/01/2019**

Time	Topics
08:30 am To 10:15 am	Rust Eliminators And Polymer Coating For Rebar During Repair, Foamed Concrete, Mortar And Dry Pack,
Tea Break	
10:30 am To 12:30 pm	Vacuum Concrete, Gunit, Shotcrete, Epoxy Injection, Mortar Repair For Cracks
Lunch Break	
01:30 pm To 03:00 pm	Shoring And Underpinning, Methods Of Corrosion Protection, Corrosion Inhibitors, Corrosion Resistant Steels
Tea Break	
03:15 pm To 04:15 pm	Engineered Demolition Techniques For Dilapidated Structures – Case Studies

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Phone: 080-28 372800/1/2

Fax: 080-28 372797

**ACADEMIC YEAR 2018-2019**

**DAY 5 – RETROFITTING OF STRUCTURES**

**Date: 25/01/2019**

Time	Topics
08:30 am To 10:15 am	Repairs To Overcome Low Member Strength, Deflection, Cracking, Chemical Distruption
<b>Tea Break</b>	
10:30 am To 12:30 pm	Weathering Corrosion, Wear, Fire, Leakage And Marine Exposure
<b>Lunch Break</b>	
01:30 pm	Valedictory programme

  
Principal  
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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 branch 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.R L Ramesh

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

## FDP Coordinator

Mrs.Geetha T S

Asst.Professor, SCE, Bengaluru

## Faculty Development Programme

On

## Repair And Rehabilitation Of Structure

On

21<sup>st</sup> -25<sup>th</sup> Jan 2019

Organized by

## Sapthagiri College of Engineering

Department of Civil Engineering


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

Phone: 080-28372800/01/02/03



## About the Course:

- Overview of Repair and Rehabilitation
- Maintenance And Repair Strategies.
- Various aspects of Inspection, assessment Procedure
- Quality Assurance for concrete, crack in concrete.
- Effect of temperature and elevated temperature.
- Corrosion and Special concrete
- Rust elimination and polymer coating
- Vacuum concrete.
- Demolition Techniques

  
Bengaluru, 560057  
Chikkasandra, Hesarghatta Main Road,  
Sapthagiri College of Engineering,  
Chikkasandra, Hesarghatta Main Road,  
Bengaluru, 560057



FACULTY DEVELOPMENT PROGRAMME  
ON REPAIR AND REHABILITATION OF STRUCTURES

Faculty Attendance

classes Conducted on repair and rehabilitation of structures

Sl No.	Faculty Name	Designation	Signature
1	DR R. L. RAMESH	HOD	R. L. Ramesh
2	Prof. PRAMOD.K.R	Assistant professor	
3	Prof. GEETHA.T.S	Assistant professor	
4	Prof. KRUPA.T.L	Assistant professor	
5	Prof. AKSHAY. J	Assistant professor	
6	Prof. RACHAVENDRA R	Assistant professor	
7	Prof. DHURUVARAJ.M.S	Assistant professor	
8	Prof. PALLAVI.G.A	Assistant professor	
9	Prof. NAVYA.N	Assistant professor	

Signature of coordinator

Principal

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

Signature of HOD





## 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), Email: [principal@sapthagiri.edu.in](mailto:principal@sapthagiri.edu.in)

Phone: 080-28 372800/1/2

Fax: 080-28 372797

### ACADEMIC YEAR 2018-2019

#### REPORT ON REPAIR AND REHABILITATION OF STRUCTURES

Aiming to provide an intense training on repair and rehabilitation of structures for our civil engineering faculties, Sapthagiri College of Engineering held during from 21<sup>ST</sup> Jan 2019 to 25<sup>th</sup> Jan 2019. And the resource persons are Asst.Prof.Rajiv T AND Pramod K R.

This FDP emphasises on stimulating inquisitiveness in the faculties during the process of acquiring and assimilating new scientific knowledge and concepts, rather than treating faculties as a passive recipient of lecture driven classes. The programme delivers the concept of repair and rehabilitation of structures in the teaching-learning process and training in research-based strategies in teaching process. Similarly, the exposure to tools like open source courseware, simulation tools, and scientific approaches of planning and execution of repair works in the site. Overall the faculties felt that the session was informative & gain knowledge about repair and rehabilitation of structures.



*R. L. Ramareesh*  
HOD

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

*[Signature]*  
PRINCIPAL  
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, Hesarghatta Main Road, Bengaluru- 560 057.



## Certificate

*This is to Certify that Mr./Mrs. Akshay J of has participated and successfully completed Five days Workshop on "Repair And Rehabilitation Of Structure" from 21<sup>st</sup> January to 25<sup>th</sup> January 2019 organized by the Civil*

**Engineering Department, Sapthagiri College of Engineering.**

**HOD**

**Dept. of CV**

**Principal**  
**Sapthagiri College of Engineering**  
14/5, Chikkasandra, Hesarghatta Main Road  
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**Principal**





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ACADEMIC YEAR 2018-2019

Date 16/01/2018

### CIRCULAR

Department of Electronics and Communication Engineering is conducting a five days faculty development programme on IOT and sensor Networks for the technical developments of the faculty from 21<sup>st</sup> Jan 2019 to 25<sup>th</sup> Jan 2019. All the faculty can register their names with Prof. Varshini.K and Prof. Prathita.P

HOD

Department of ECE

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

Principal

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





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ACADEMIC YEAR 2018-2019

### Minutes of Meeting

A meeting of all the faculty was held on 10/01/2019 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 IOT and sensor Networks to faculty members was discussed and approved by the HOD

### Detailed Syllabus & Schedule

#### DAY 1 - Introduction

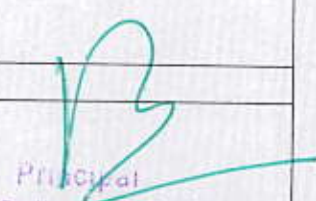
Date: 21/01/2019

Time	Topics
08:30 am To 10:15 am	Introduction to embedded system, Understanding Embedded System, Overview of basic electronics and digital electronics
Tea Break	
10:30 am To 12:30 pm	Microcontroller vs. Microprocessor, RISC vs. CISC Architectures, Harvard and Von Neumann architectures, Common features of Microcontroller, Comparison between the Microprocessor and microcontroller
Lunch Break	
01:30 pm To 03:00 pm	Different types of microcontrollers (Both RISC and CISC)
Tea Break	
03:15 pm To 04:00 pm	Different types of microcontrollers (Both RISC and CISC)

#### DAY 2 - Getting started with Arduino

Date: 22/01/2019

Time	Topics
08:30 am To 10:15 am	Introduction to Arduino, Pin configuration and architecture
10:30 am To 12:30 pm	Device and platform features, Concept of digital and analog ports.

  
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### ACADEMIC YEAR 2018-2019

01:30 pm To 03:00 pm	Familiarizing with different kinds of Arduino Interfacing Boards
03:15 pm To 04:00 pm	Introduction to Embedded C and Arduino platform

### DAY 3 – Basic concepts of Arduino programming

Date: 23/01/2019

Time	Topics
08:30 am To 10:15 am	<b>Review of Basic concepts:</b> Arduino data types , Variables and constants, Operators, Control Statements, Arrays, Functions
<b>Tea Break</b>	
10:30 am To 12:30 pm	Arduino program structure, setup(), loop() functions, importance of math.h header file in Arduino programs
<b>Lunch Break</b>	
01:30 pm To 03:00 pm	<b>Arduino i/o Functions :</b> Pins Configured as INPUT and OUTPUT, Pull up resistors, pinMode() Function
<b>Tea Break</b>	
03:15 pm To 04:15 pm	<b>Arduino advanced I/O functions:</b> Analog Reference() Function, digital Write() Function, analog Read() function, analogWrite(), Arduino Time functions.

### DAY 4 – General Hardware Interfacing

Date: 24/01/2019

Time	Topics
08:30 am To 10:15 am	Introduction to General Hardware Interfacings like LED's, Switches, Seven Segment Display, Relays , LCD, Buzzer, Sensors and actuators
<b>Tea Break</b>	
10:30 am To 12:30 pm	Introduction to different kinds of communications, Serial vs. parallel, Synchronous and asynchronous to serial communication
<b>Lunch Break</b>	
01:30 pm To 03:00 pm	UART communication in Arduino, Serial.begin(), Serial.write(), Serial.print(), Serial.println() functions
<b>Tea Break</b>	
03:15 pm To	I <sup>2</sup> c and SPI communication in Arduino boards

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ACADEMIC YEAR 2018-2019

04:15 pm

### DAY 5 – Advanced concepts in Arduino

Date: 25/01/2019

Time	Topics
08:30 am To 10:15 am	Pulse Width Modulation, DC Motor, Stepper Motor
Tea Break	
10:30 am To 12:30 pm	Arduino Interrupts
Lunch Break	
01:30 pm To 03:00 pm	Case studies of Arduino projects
Tea Break	
03:15 pm To 04:00 pm	Case studies of Arduino projects

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. Frakash Jhadav	Guest Speaker	

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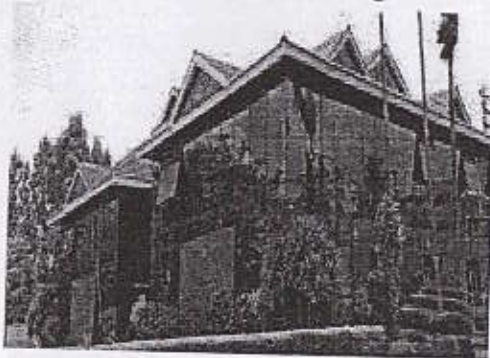




**5 Days FDP**  
on

**"IOT and Sensor Networks"**  
21<sup>st</sup> January 2019 to 25<sup>th</sup> January 2019

**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  
Chikkasandra, Hesaraghatta Road,  
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 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

- Introduction to embedded system,
- General Hardware Interfacings
- Arduino programing
- Introduction to programming to interface humidity sensor, temperature sensor.
- Advanced concepts in Arduino

#### Resource Persons:

##### **Dr. Prakash Jadhav**

Assoc.Professor  
Department ECE, MVJCE, Bangalore  
Qualification: B.Tech. MTech. PhD

##### **Prof.Asha P N**

Research scholar, Barathiar university,  
Coimatore  
Qualification: B.Tech MTech. PhD

#### Address for Registration /Communication

**Prof. Prathiba.P : 9448914448**





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**ACADEMIC YEAR 2018-2019**

### 2018-19(EVEN)

**List of participants and Attendance FDP on " IOT and Sensor Networks"**  
**From 21<sup>st</sup> Jan 2019 to 25<sup>th</sup> Jan 2019**

Sl. No.	Name of the Faculty	21/01/19		22/01/19		23/01/19		24/01/19		25/01/19	
		FN	AN	FN	AN	FN	AN	FN	AN	FN	AN
1	Sandhya xani. MIT	3	3	3	3	3	3	3	3	3	3
2	SATISH MURTHY	3	3	3	3	3	3	3	3	3	3
3	SHOBHA. S	3	3	3	3	3	3	3	3	3	3
4	DR. SASMITA MOHAPATRA	3	3	3	3	3	3	3	3	3	3
5	RAVISHANKAR M.N	3	3	3	3	3	3	3	3	3	3
6	SHOBHA I HUGAR	3	3	3	3	3	3	3	3	3	3
7	SUMA V SHETTY	3	3	3	3	3	3	3	3	3	3
8	PRATHIBHA P	3	3	3	3	3	3	3	3	3	3
9	VANI. V	3	3	3	3	3	3	3	3	3	3
10	KARITHIK. NC	3	3	3	3	3	3	3	3	3	3
11	SHILPA. V	3	3	3	3	3	3	3	3	3	3
12	VANI. A	3	3	3	3	3	3	3	3	3	3
13	VARSHINI. K	3	3	3	3	3	3	3	3	3	3
14	PREEJITH T.S	3	3	3	3	3	3	3	3	3	3
15	Shwetha. G	3	3	3	3	3	3	3	3	3	3
16											
17	PADMAVATHI. C	3	3	3	3	3	3	3	3	3	3
18	THIRUPESWAMY. E	3	3	3	3	3	3	3	3	3	3
19	Thimmappa. K. Adava. G	3	3	3	3	3	3	3	3	3	3
20	VINAY. H. C	3	3	3	3	3	3	3	3	3	3
21	Sudha. M. S	3	3	3	3	3	3	3	3	3	3
22	Agalya. P	3	3	3	3	3	3	3	3	3	3
23											

Principal

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**Department of Electronics and Communication Engineering**  
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## Five days Faculty Development Program Report on

### "IOT and Sensor Networks"

Date: 21-01-2019 to 25-01-2019

Time: 9 AM to 4PM

Venue: DSP and HDL Lab, Faraday block, SCE

#### RESOURCE PERSONS PROFILE:

1. Name: Dr. Prakash Jadhav

Current Status: Assoc.Professor

Department ECE, MVJCE, Bangalore

Qualification: B.Tech. MTech. PhD

**Professional Experience:** Has 19 years of Teaching experience in various subjects in the field of Electronics and communication Has published many papers in National and International level journals and conferences. Has also chairperson for many conferences held in MVJ college of Engineering Bangalore.

2.Name: Prof. Asha P N

Current Status: Research scholar, Barathiar university, Coimatore

Qualification: B.Tech. M.Tech. PhD

**Professional Experience:** Has 12+ years of Teaching experience in various subjects in the field of Computer science and Engineering. Has published many papers in National and International level journals and conferences.

#### Summary Report:

Five days Faculty development programme was conducted on IoT and sensor Networks from 21-01-2019 to 25-01-19. On the first day session started with Introduction to embedded system, Understanding Embedded System, Overview of basic electronics and digital electronics. The session followed by question and answers where faculties interacted. Hands on was given to faculties in the afternoon.

On the second day the resource person started with Introduction to General Hardware Interfacings like LED's, Switches, Seven Segment Display, Relays, LCD, Buzzer, Sensors and actuators.

On the third day simple Arduino programing was explained in the morning session and hands on was provided in the afternoon session.

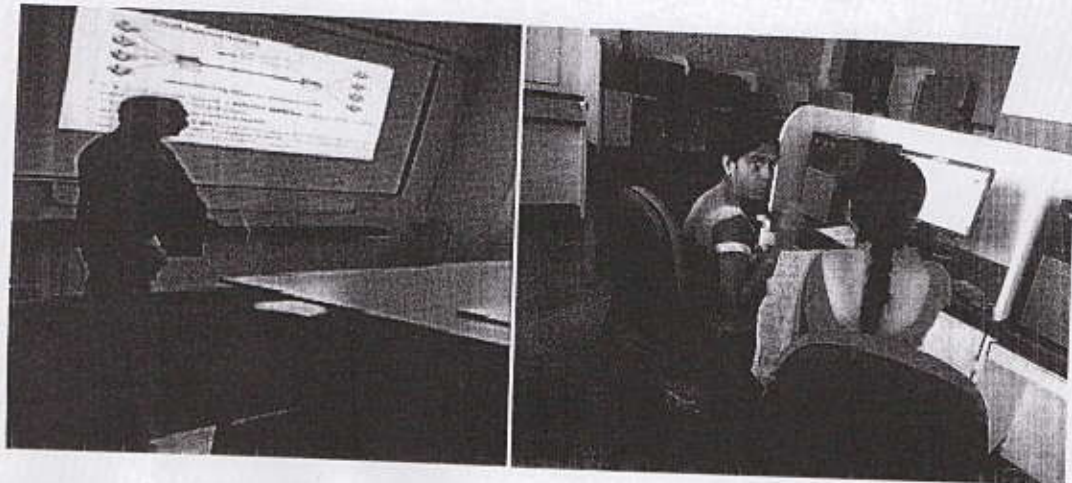
On the fourth day the resource person gave Introduction to programming to interface humidity sensor, temperature sensor. Hands on training was given in the afternoon.

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On the last day of the Faculty development programme Advanced concepts in Arduino were discussed. The certificates were issued to all the participants and the workshop was concluded by giving vote of thanks to resource persons, organizer, HOD, principal and management for permitting to conduct five days FDP on IOT and sensor Networks.



*Dr. Prakash Jadhav delivering speech to participants and hands on session*

  
Chairman

*Academic committee*

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

  
Principal

Sapthagiri College of Engineering  
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Bangalore-560 057



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




## Certificate

*This is to Certify that Mr./Mrs. Preedhi. T.S of has participated and successfully completed Five days Workshop on IOT and sensor Networks from 21<sup>st</sup> January to 25<sup>th</sup> January 2019 organized by the Electronics and Communication Engineering Department, Sapthagiri College of Engineering.*

  
HOD

Dept. of ECE

  
Principal  
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Principal





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### DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

Date: 16/01/2019

### CIRCULAR

Faculties are hereby informed that department is conducting following FDP:

**Subject:** "PLC & SCADA with hands on training"

**Date:** 21<sup>st</sup> Jan 2019 to 25<sup>th</sup> Jan 2019

**Resource Person:** Dr. C S Raviprasad, General Manager, KEC

All are requested to attend the FDP without fail.

HOD

Dept. Of EEE

Principal

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### DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

#### Minutes of Meeting

A meeting of the academic committee was held on 17/01/2019 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 "PLC & SCADA with hands on training" from 21<sup>st</sup> Jan 2019 to 25<sup>th</sup> Jan 2019 and the same was approved by the HOD.

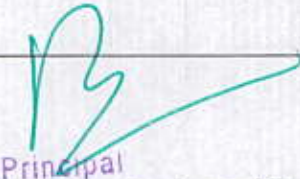
#### Detailed Syllabus & Schedule

##### DAY 1 - Date: 21/01/2019

Time	Topics
09:30 am To 11:00 am	Inauguration, Invocation, welcome speech, Introduction of resource person, presidential address
Tea Break	
11:30 am To 1:30 pm	Fundamentals of PLC.
Lunch Break	
02:30 pm To 04:00 pm	Concept of Ladder & SCAN, Cycle execution, I/O's

##### DAY 2 - Date: 22/01/2019

Time	Topics
09:30 am To 11:00 am	Programming Instructions, Arithmetic & Logical.
Tea Break	
11:30 am To 1:30 pm	Monitoring Arrays & DACs of user defined Data types.
Lunch Break	
02:30 pm To 04:00 pm	Fault detection & Error handling.

  
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### DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

#### DAY 3 – Date: 23/01/2019

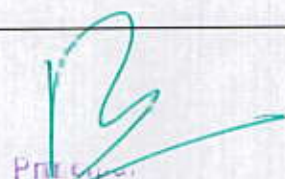
Time	Topics
09:30 am To 11:00 am	Introduction to SCADA SCADA practice Hands on Session
<b>Tea Break</b>	
11:30 am To 1:30 pm	SCADA system application( OIL Gas/ Factory / Metro/ Solar Power Plant/ Steel Plant)
<b>Lunch Break</b>	
02:30 pm To 04:00 pm	Fault Diagnoses & Error Handling & Communication with PLC

#### DAY 4 – Date: 24/01/2019

Time	Topics
09:30 am To 04:00 pm	Industrial Visit

#### DAY 5 – Date: 25/01/2019

Time	Topics
09:30 am To 11:00 am	Fault Diagnoses & Error Handling & Communication with SCADA.
<b>Tea Break</b>	
11:30 am To 1:30 pm	Real Time Applications of PLC & SCADA
<b>Lunch Break</b>	
02:30 pm To 04:00 pm	Question / Answer session, Feed Back, Valedictory Function etc

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

**“PLC & SCADA with hands on**  
**training”**

**FROM 21st Jan 2019 to 25rd Jan 2019**

**Name of the Participant:**

.....

**Gender:**

.....

**Department:**

.....

**Name & Address of Institution:**

.....

.....

**Address for Communication:**

.....

.....

.....

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

**Mobile:** .....

**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. Shivabasappa,**

Principal, SCE, Bengaluru

**Program Coordinator**

**Prof. Prof. Rukmangada R**

Sr. Lecturer., 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 Lecutrre, EEE, SCE, Bengaluru



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

**“PLC & SCADA with hands on**  
**training”**

**FROM 21<sup>st</sup> Jan 2019 to 25<sup>th</sup> Jan 2019**

**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

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

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

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

Phone: 080-28 372800/1/2

Fax: 080-28 372797

**2018-19(EVEN)**

**List of participants and Attendance FDP on "PLC & SCADA with Hands on Training"**  
**from 21<sup>st</sup> Jan 2019 to 25<sup>th</sup> Jan 2019.**

Sl. No.	Name of the Faculty	21/01/19		22/01/19		23/01/19		24/01/19		25/01/19	
		FN	AN	FN	AN	FN	AN	FN	AN	FN	AN
1	Dr. K. N. RAY	Ki	Ki	Ki	Ki	Ki	Ki	Ki	Ki	Ki	Ki
2	Mahavir Shm	M	M	M	M	M	M	M	M	M	M
3	Cum Prasanna	P	P	P	P	P	P	P	P	P	P
4	Pooeltha NP	N	N	N	N	N	N	N	N	N	N
5	Ashwini W. A V	A	A	A	A	A	A	A	A	A	A
5	A. Dhamodaran	D	D	D	D	D	D	D	D	D	D
7	Nayana H. J	N	N	N	N	N	N	N	N	N	N
3	Shirasa A	S	S	S	S	S	S	S	S	S	S
3	R. Rukmanj	R	R	R	R	R	R	R	R	R	R
10	Divya N's	D	D	D	D	D	D	D	D	D	D
11	Sumangala S. J	S	S	S	S	S	S	S	S	S	S
12	Tharishi K	T	T	T	T	T	T	T	T	T	T
13	Rekha S w	R	R	R	R	R	R	R	R	R	R
14	Ashwini. C	A	A	A	A	A	A	A	A	A	A
15	Manasus.	M	M	M	M	M	M	M	M	M	M
16	Sneha. A	S	S	S	S	S	S	S	S	S	S
17	Nandini	N	N	N	N	N	N	N	N	N	N
18											
19											
20											

Principal

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

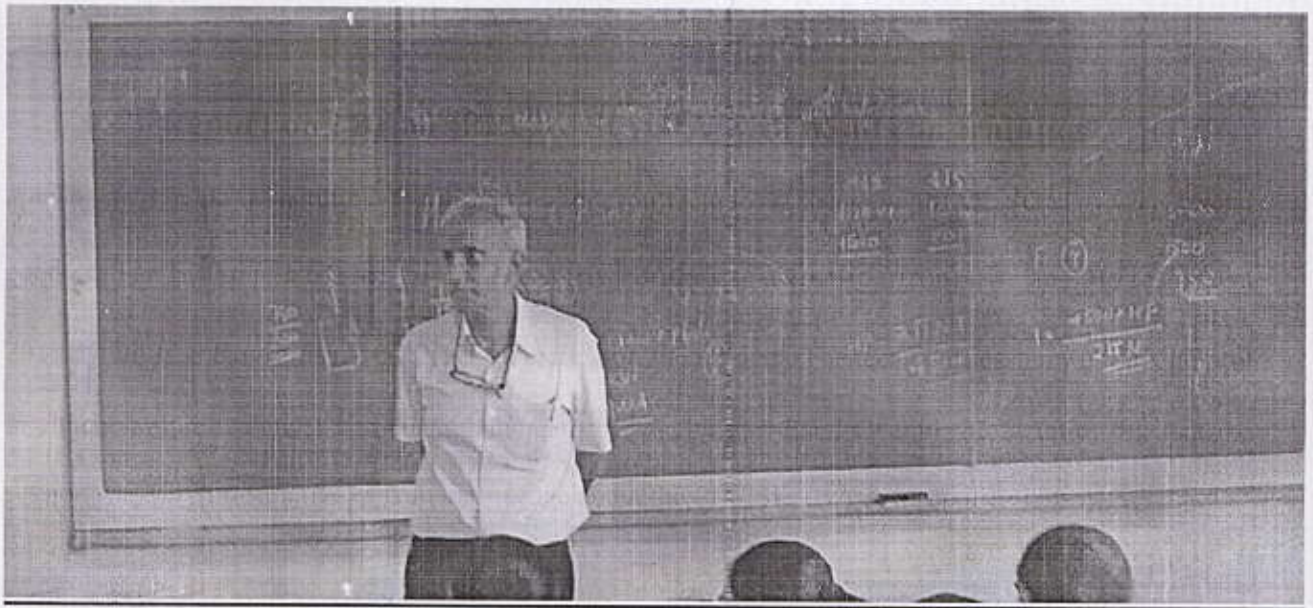


**Sapthagiri College of Engineering**  
14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057  
**Department of Electrical and Electronics and Engineering**  
**FACULTY DEVELOPMENT PROGRAMME COMMITTEE**

**AY 2018-19(EVEN)**

**Report on FDP on "PLC & SCADA with hands on training"**

Aiming to provide an additional skill and training on technical aspects of PLC & SCADA, department conducted an FDP on "PLC & SCADA with hands on training" from 21<sup>st</sup> Jan 2019 to 25<sup>th</sup> Jan 2019 by Dr. C.S Raviprasad, GM (KEC) expert on the subject. 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 PLC/SCADA & its applications.



  
Principal  
Sapthagiri College of Engineering  
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Bangalore-560 057





# Sapthagiri College of Engineering


Bangalore-560057

## Certificate

This is to Certify that Mr./Ms. A. SHIVARAJ  
of ELECTRICAL & ELECTRONICS DEPT has participated  
and successfully completed -5- days Certification Course on  
"PLC & SCADA WITH HANDS ON TRAINING" from  
21<sup>ST</sup> Jan 2019 to 25<sup>th</sup> Jan 2019. 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  
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Bangalore-560 057

  
Principal





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DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### CIRCULAR

19.1.19

Faculties are hereby informed to attend five days FDP on Wireless Networks from 21<sup>st</sup> January 2019 to 25<sup>th</sup> January 2019.

HOD

*H.R. Ranganatha*  
Dept. of ISE

*H.R. Ranganatha*  
Principal

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

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

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



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### DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

#### Minutes of Meeting

A meeting of all the faculties was held on 15-01-2019 at HOD's office, Department of ISE, Sapthagiri College of Engineering. Dr. H.C Ranganatha., Professor & Head chaired the meeting and greeted all faculty.

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

#### Detailed Schedule

##### DAY 1

Date: 21/01/2019

Time	Topics
Morning Session	Inauguration
2:30 pm To 4:00 pm	Introduction to wireless networks systems.

Date: 22/07/2019

##### DAY 2

Time	Topics
08:30 am To 10:15 am	3G Standards
Tea Break	
10:30 am To 12:30 pm	Evolution of Wireless Broadband
Lunch Break	
01:30 pm To 03:00 pm	The Cellular Concept, Cellular System Design Fundamentals
03:15 pm To 04:00 pm	The Cellular Concept, Cellular System Design Fundamentals

Principal

Sapthagiri College of Engineering

Chikkasandra, Hesaraghatta Road,

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### DAY 3

Date: 23/01/2019

Time	Topics
08:30 am To 10:15 am	Trucking ,GOS,Cell ,Splitting,SIR
Tea Break	
10:30 am To 12:30 pm	Antennas, Propagation, Fundamentals
Lunch Break	
01:30 pm To 03:00 pm	4G Cellular 5G Cellular
Tea Break	
03:15 pm To 04:15 pm	The future of Wi-Fi

### DAY 4

Date: 24/01/2019

Time	Topics
08:30 am To 10:15 am	Emerging Wireless Standards LTE
Tea Break	
10:30 am To 12:30 pm	Personal Area Networks Software Defined Radios
Lunch Break	
01:30 pm To 03:00 pm	Broadcast Channels and Information Theory
Tea Break	
03:15 pm	

Principal  
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Te 04:15 pm	Cooperative Networking
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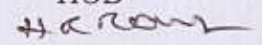
Date: 25/01/2019

Day 5

Time	Topics
08:30 am To 10:15 am	.Zigbee and other Personal area networks
Tea Break	
10:30 am To 12:30 pm	Wireless Network Control
Lunch Break	
01:30 pm To 03:00 pm	MIMO
3.15- 4.15 pm	Valedictory function



Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
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HOD  
  
ISE DEPT

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



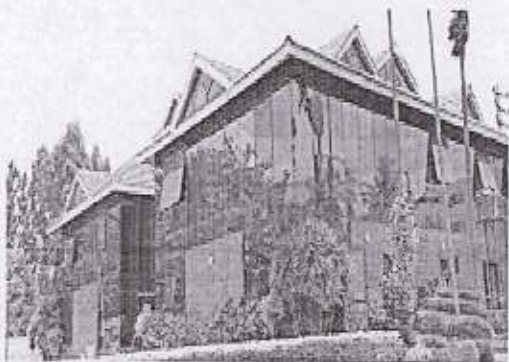


**Five Days FDP  
On**

**“Wireless Networking”**

**FROM 21<sup>st</sup> Jan 2019 to 25<sup>th</sup> Jan 2019**

**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 field of Wireless Networking.
- To understand the latest technology used in the these wireless networking.

#### Resource Person:

**Sowmya Somanath**  
Assistant Professor  
Department of ISE  
Sapthagiri College of Engineering

#### Address for Communication/Registration

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

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

#### Email-id for registration:

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





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Fax 080-28372797

Department Of Information Science and Engineering

## FDP on “Wireless Networks” Attendance

Sl No	Faculty Name	21.1.19		22.1.19		23.1.19		24.1.19		25.1.19	
		MS	AS	MS	AS	MS	AS	MS	AS	MS	AS
	Prof. Prerana Chaithra	P	P	P	P	P	P	P	P	P	P
2	Prof. Sudarsanan D	P	P	P	P	P	P	P	P	P	P
3	Prof. Ravichandra M	P	P	P	P	P	P	P	P	P	P
4	Prof. Gayathri R	P	P	P	P	P	P	P	P	P	P
5	Prof. Devaraja S	P	P	P	P	P	P	P	P	P	P
6	Prof. Sanjay Kumar J H	P	P	P	P	P	P	P	P	P	P
7	Prof. Ramya R	P	P	P	P	P	P	P	P	P	P
8	Prof. Sheetal Raj	P	P	P	P	P	P	P	P	P	P
9	Prof. Veena V	P	P	P	P	P	P	P	P	P	P
10	Prof. Divyashree G	P	P	P	P	P	P	P	P	P	P
11	Prof. Sowmya Somanath	P	P	P	P	P	P	P	P	P	P
12	Prof. Kavyashree	P	P	P	P	P	P	P	P	P	P
13	Prof. Praneetha G.N	P	P	P	P	P	P	P	P	P	P
14	Prof. Meghana N M	P	P	P	P	P	P	P	P	P	P
15	Prof. Ambika S	P	P	P	P	P	P	P	P	P	P
16	Prof. Vineetha B	P	P	P	P	P	P	P	P	P	P
17	Prof. Chaithra B M	P	P	P	P	P	P	P	P	P	P

H.R.

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

Dept. of Information Science & Engg.

Sapthagiri College of Engineering

Chikkasandra, Hesaraghatta Main Road

BANGALORE-560 057

Principal

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



### Report on Wireless Networks

No of participants=17

Aiming to provide an Faculty Development Program on Wireless Networks for the faculties of Department of Information Science Engineering, Sapthagiri College of Engineering held during 21<sup>st</sup> January 2019 to 25<sup>th</sup> January 2019. The resource person for this FDP is Prof Sowmya Somanath, Department of ISE, Sapthagiri College of Engineering Bangalore. Overall the faculties felt that the session was informative & gained knowledge about Wireless Networks and its applications. Faculties were able to understand the wireless data connection between network nodes. Speaker gave various examples including cell phone networks, wireless sensor networks, ad-hoc networks etc. The FDP conducted was very informative.



FDP on Wireless Networks by Prof Sowmya Somanath

  
Coordinator

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



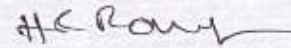



# Sapthagiri College of Engineering

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  
"Wireless Networks" from 21<sup>st</sup> January, 2019 to 25<sup>th</sup> January, 2019  
organized by the Department of Information Science & Engineering,  
Sapthagiri College of Engineering.

  
HOD, Dept of ISE

  
Principal

Sapthagiri College of Engineering  
Chikkasandra, Hesarahalli, Bangalore-560057





**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, Bangalore-560 057.

Date: 13/01/2019

**CIRCULAR**

Mechanical Engineering faculty are hereby informing that there will be a faculty development programme entitled "**Composites and Light Metals**" for five days on 2<sup>nd</sup> Jan. 2019 to 25<sup>th</sup> Jan. 2019. The interested candidates enroll your names with Mr. **Anilkumar P R**

**HOD**

**Department of Mechanical Engineering**

*[Signature]*  
T.C.D. Dept. of Mech. Engg  
S.C.E., Bangalore-560 057

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

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



Date: 13/01/2019

### Minutes of Meeting

A meeting was conducted on 13<sup>th</sup> Jan. 2019 in Mechanical HOD office to discuss and finalize the following about the five days faculty development programme for mechanical engineering department. The following points have discussed in the meeting

- FDP program for Mechanical faculty on 21<sup>st</sup> Jan. 2019 to 25<sup>th</sup> Jan. 2019.
- Programme Convener- Mr. AnilKumar P R
- Certificate program entitled as **Composites and Light Metals**.
- Course duration and Date

### Course Content

Date	Morning Session 9.30 a.m. to 12.30 p.m.	Afternoon Session 2.00 p.m. to 5.00 p.m.
21/01/2019	Registration & Inauguration function	Aluminum alloys and its composites
22/01/2019	Grain refinement of Al-Si alloys	Al based in situ composites
23/01/2019	Semi Solid processing of Al Matrix composites	Mg-Si alloys
24/01/2019	Ti-Ni shape memory alloys	Sliding wear and machinability of Al-Si alloys
25/01/2019	Recycling of Al-SiC metal matrix Composites	Valedictory function

### Faculty members Present

Dr. Tulsidas D	
Dr. R G Deshapande	
Dr. Basavaraj S	
Mr. AnilKumar P R	
Mr. RamKumar M	
Mr. Ramesh N G	
Mr. MadhuKumar Y C	
Mr. ArunKumar R	
Mr. Basavaraj Ganiger	
Mr. chethan B P	

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

*1.O.D. Dept. of Mech. Engg*  
*3.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, 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

### Patron

#### Dr. Shivabasappa K L

Principal, SCE, Bengaluru

### Convener

#### Dr.P Mahadevaswamy

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

### FDP Coordinator

#### Mr. AnilKumar P R

Asst. Professor, SCE, Bengaluru

## Faculty Development Programme On Composites and Light Metals On 21<sup>st</sup> -25<sup>th</sup> January 2019

### 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 Composite Materials, Need and General Characteristics, Various types and its applications, Fibers, Matrices, Polymers, Ceramics, Metal Matrices, Manufacturing Processes, Flat Plate Laminate constitutive Equations, Lamina Strength Analysis, Importance of light metals.

### Resource Persons:

#### Dr. Basavaraju S

Assistant Professor,  
Department of Mechanical Engineering  
Acharya Institute of Technology Bangalore

#### Dr. R G Deshpande

Assistant Professor  
Department of Mechanical Engineering  
Acharya Institute of Technology Bangalore

Principal  
Sapthagiri College of Engineering  
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Bangalore - 560 057



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

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**FDP ON**  
**Composites and Light Metals**  
**Attendance**

Sl. No.	Name	21-01-2019		22-01-2019		23-01-2019		24-01-2019		25-01-2019	
		MS	AN	MS	AN	MS	AN	MS	AN	MS	AN
1	Dr. Mahadevaswamy	1	2	3	4	5	6	7	8	9	10
2	Dr. Tulsi Das	1	2	3	4	5	6	7	8	9	10
3	Anilkumar P.R	1	2	3	3	4	5	6	7	8	9
4	Ramesh . Nig	1	2	3	4	5	6	7	8	9	10
5	A.M. Mahesh	1	2	3	4	5	6	7	8	9	10
6	P.R. Rao	1	2	3	4	5	6	7	8	9	10
7	Padmanabha . G	1	2	3	4	5	6	6	7	8	9
8	Remanth kumar H.R	1	2	3	4	5	6	7	8	9	10
9	Siva nurali Mohan Reddy	1	2	3	4	5	6	7	8	9	10
10	Madhukumar Y.C	1	2	3	4	5	6	7	8	9	10
11	Basavaraj Ganiger	1	2	3	4	5	6	7	8	9	10
12	Chetan B.P	1	2	3	4	5	6	7	7	8	9
13	Pramod	1	2	3	4	5	6	7	8	9	10
14	Tilak . S	1	2	3	4	5	6	7	8	9	10
15	Arun kumar . R	1	2	3	4	5	6	7	8	8	9
16	Nataraj	1	2	3	4	5	6	7	8	9	10
17	Mahesh . S	1	2	3	4	5	6	7	8	9	10
18	Ramkumar . M	1	2	3	4	5	6	7	8	9	10
19	Raja lakshmi . S	1	2	3	4	5	6	7	8	9	10
20	Sanjay H.M.	1	2	3	4	5	6	7	8	9	10

  
Signature of Converter

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



## REPORT

### FDP on Composites and Light Metals

Department of mechanical Engineering organized FDP on Composites and Light Metals.

#### Speakers

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

Prof. R G Deshapande, Associate Professor, Department of Mechanical Engineering, Acharya Institute of Technology Bangalore

**Duration of the course:** Jan. 21<sup>st</sup> 2019 to Jan. 25<sup>th</sup> 2019

Date	Morning Session 9.30 a.m. to 12.30 p.m.	Afternoon Session 2.00 p.m. to 5.00 p.m.
21/01/2019	Registration & Inauguration function	Aluminum alloys and its composites
22/01/2019	Grain refinement of Al-Si alloys	Al based in situ composites
23/01/2019	Semi Solid processing of Al Matrix composites	Mg-Si alloys
24/01/2019	Ti-Ni shape memory alloys	Sliding wear and machinability of Al-Si alloys
25/01/2019	Recycling of Al-SiC metal matrix Composites	Valedictory function



The FDP aimed to provide an intense discussion on Composites and Light Metals, The faculty members felt that the session was informative & gained knowledge about developments in Composites and Light Metals

  
Signature of the Convener

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



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## Certificate

*This is to Certify that Mr./Mrs. RAJA LAKSHMI S of has participated and successfully completed Five days Workshop on "Composites and Light Metals" from 21<sup>st</sup> January to 25<sup>th</sup> 2019 organized by the Mechanical Engineering Department, Sapthagiri College of Engineering.*

  
HOD

Dept of ME

  
Principal



To,

**Mrs.Pushpa Latha G**

Legal Consultant

Ernst and Young LLP

Bengaluru.

Dear Sir,

Sub:Seminar on Intellectual Property Rights (IPR)

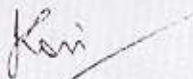
The Sapthagiri College of Engineering is arranging seminar on Intellectual Property Rights (IPR). We request you to kindly arrange for the lecture. The subject will be of interest to the Engineering college faculties. As per your request, Transport will be arranged for Pick-up and drop of the guest lecturer.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

Date: 06/08/2018

Time: 3PM to 4PM

Venue: ECE M Tech Class Room, Academic Block

Thanking you.



**Dr. KN Ravi**

Professor and Head

Department of Electrical and Electronics Engineering

Sapthagiri College of Engineering

Bengaluru



**Principal,**

**Sapthagiri College of Engineering**

Chikkasandra, Hesaraghatta Road,

Bangalore- 560 057



## SAPTHAGIRI COLLEGE OF ENGINEERING

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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 Fax: 080-28 372797

### CIRCULAR

The college is organizing seminar on "IPR Protection and Procedure" by Pushpa Latha G on 06.08.2018 from 3PM to 4.30PM.

Hence hereby informing all faculties to attend the same.

  
PRINCIPAL

Principal

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

Copy to:

1. All HOD's
2. Office copy.

  
Principal

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

### Report on Intellectual Property Rights

#### *Topic: "IPR Protection and Procedure"*

By

Mrs Pushpa Latha G

Legal Consultant

Ernst and Young LLP

Bengaluru.

**Date: 06.08.2018**

**Time: 3 PM to 4.30 PM**

**Venue: ECE MTech Class Room, Academic Block, SCE.**

The workshop commenced with welcoming the gathering by Prof. Vani A., Dept of ECE and narrated the objectives of the IPR. The faculties of all the department of SCE participated in the programme.

The Speaker Mrs. Pushpa Latha G, Legal Consultant from Ernst and Young LLP begins with the History of Intellectual Property from beginning to evolving phase. Subsequently explaining the formation of World Intellectual Property Organization and its roles and functions that is IPR agreement administration, IPR Practices harmonization.

The procedure and methods in Indian patent filing of Intellectual property system and the Office of the Controller General of Patents, Designs and Trademarks, Department of Industrial Policy and Promotion. Subsequently explaining the roles and functions of Intellectual property Office in India.

The filing the Patent application, conflict management, Copyright application, Trademark application, Design application and the Scheme for Facilitating Start-ups Intellectual Property Protection. The discussion session has more interactions from faculties and this workshop kindle the younger minds of the college.



Principal

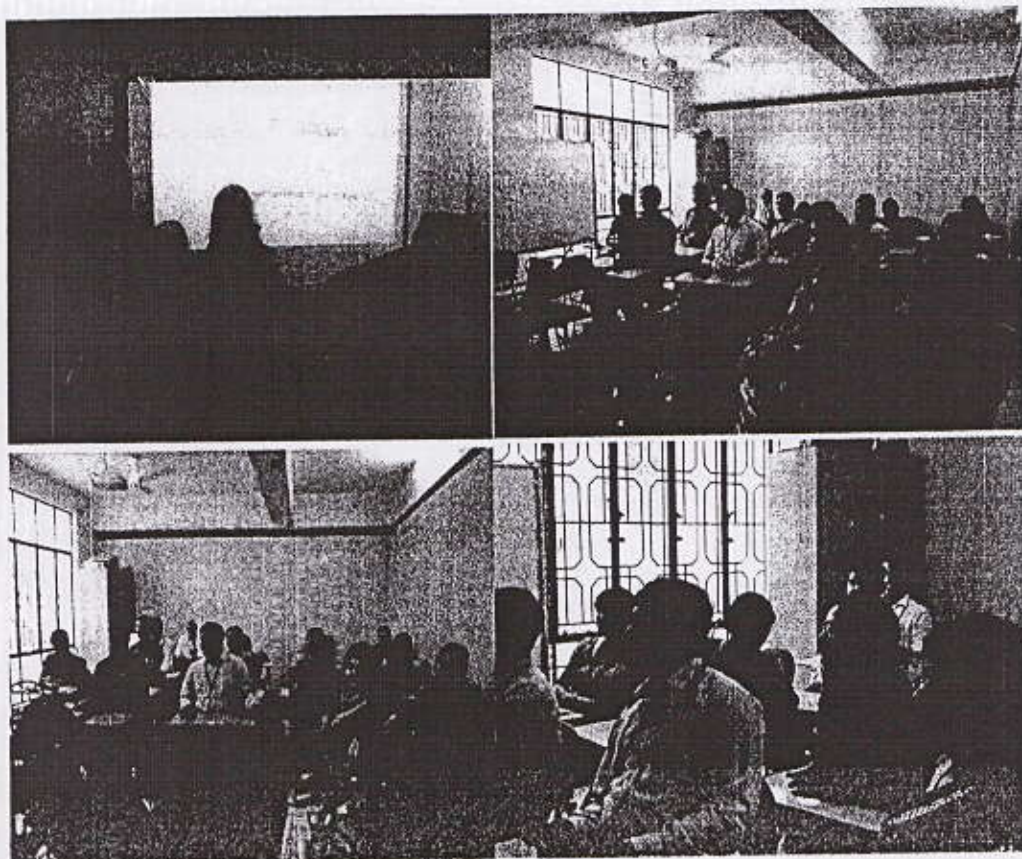
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Bangalore- 560 057



Photo Gallery



*KN*

**Dr. KN Ravi**  
HOD EEE

*KL*

**Dr. KL Shivabasappa**  
Principal

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*Principal*

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Bangalore- 560 057



**Attendance Report on  
"IPR Protection and Procedure"**

Date: 06.08.2018

Sl No	Name	Department	Signature
1	Vani A	EC	
2	SHILPA V.	E&IE	
3	S. SHOBHA	EECE	
4	RAVISHANKARATHAN	ECE	
5	Karthik M. C.	EECE	
6	Umay H.C	EC	
7	Nandha. M.B	CSE	
8	Shilpa. m	CSE	
11	Preethi T.S.	ECE	
10	Swarna V. SHETIM	EECE	
11	Prathibha P	ELR	
12	SANGEETA SIRI	- ECE	
13	Sudha. M.S	ECE	
14	Suma. C	ECE	
15	Leetia	CSE	
16	Madhusree	CSE	
17	Kanya N.L	CSE	
18	Chaitra	CSE	
19	Kavitha	CSE	
20	Srikanth	CSE	
21	Veena. K.R	CSE	
22	Muralidhar R	CSE	
23	Sudarsana. D	ISE	
24	Ravi. Chandan M	ISE	
25	Sanjay Kumar J.H.	ISE	
26	Ramya. R	ISE	
27	Gayathri R	ISE	
28	Bhanya N.P	Maths	
29	Bindu M.G	Maths	
30	Poo. Peesana Chaitra	ISE	
31	Rohini K. R	Maths	
32	Banushree H.C	Maths	
33	Manirabhanam. M	Maths	
34	Padmaavathi. C	ECE	
35	A. Dharmodaran	EEE	

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## Training on Workplace Communication Skills Time Schedule

**Speaker: Dr. Roopa K P**

Department of Chemistry

Sapthagiri College of Engineering, Bangalore-560057

Date: ~~06/08/2018~~

Time	Topics
10:30 am To 12:30 pm	<ul style="list-style-type: none"> <li>➤ Basic communication skills,</li> <li>➤ Focus on the issue, not the person</li> <li>➤ Be genuine rather than manipulative</li> </ul>
Lunch Break	
01:30 pm To 04:30 pm	<ul style="list-style-type: none"> <li>➤ Empathize rather than remain detached</li> <li>➤ be flexible towards others</li> <li>➤ Value yourself and your own experiences</li> </ul>



**Dr. B.S. KRISHNA**  
Professor & Head  
Department of Chemistry  
Sapthagiri College of Engineering  
BENGALURU - 560 057.



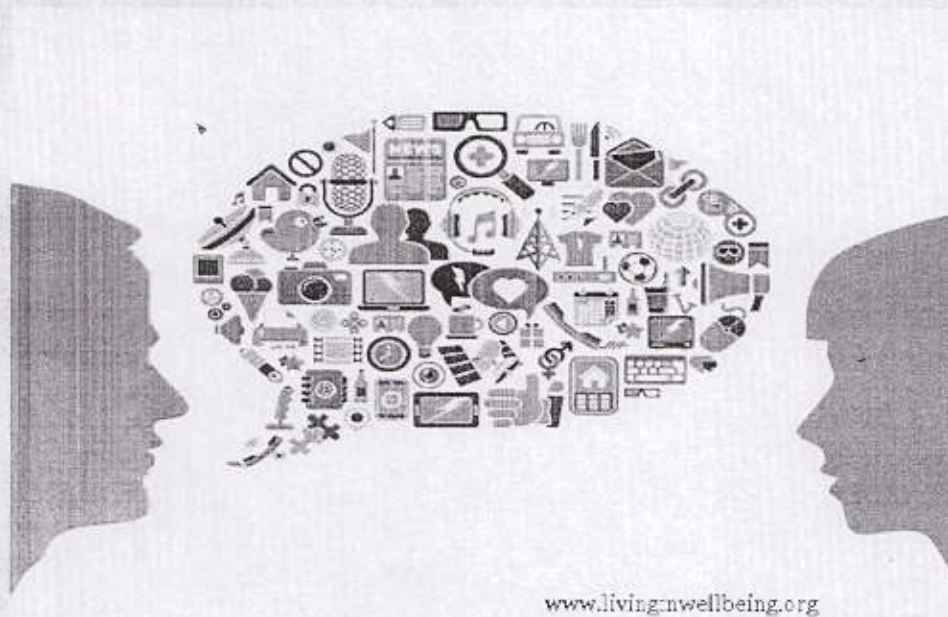
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## “Training on Workplace Communication Skill”

By

Dr. Roopa K P

Department of Chemistry

Date: 6/8/2018

Organized by:

SAPTHAGIRI COLLEGE OF ENGINEERING

Principal

Sapthagiri College of Engineering  
Chikkasandra, Hesaragatta Road,  
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Sri Srinivasa Educational & Charitable Trust

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Chikkasandra, Hesaraghatta Road, Bangalore-560057

Training on work place communication skill

### Attendance sheet

Sl. No.	Name of office staff	Date:06.08.19 Morning session	Date:06.08.19 Afternoon session
1	Mahalakshmi R		
2	Padmashree G		
3	NayanaRangaraj		
4	Ramesh M		
5	Hanume Gowda K H		
6	Rajanna N		
7	Jayashree B L		
8	Sayesuthe A M		
9	Jyothirmayee P H		
10	Nagarathna M V		
11	Suma B		

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## Report of talk on workplace communication skill

### Introduction

This talk on workplace communication skills focus on both verbal and non-verbal communication. Whether written or spoken, reading, or listening, these skills are crucial in any workplace and can make you a better, more effective and more efficient employee. They are several ways to improve communication skills. As an office staff it is mandatory for one to know the basics and have a core idea in order to satisfy the purpose of work and establish an acceptable conclusion. The workplace communication skill gave this opportunity to the office staff to enhance their knowledge in communication with the persons. The workplace communication skill programme summarized the aspects relating to the traditional communications. This workplace communication skill intended to orient participants towards developing their own ideas with due attention to every stage of communication.

### Objectives

The major objectives kept in mind while framing this talk on workplace communication skill were as follows:

- To build friendliness.
- It offers a stimulating clarity and concision.
- Open-mindedness.
- Listening and Non-verbal communications.

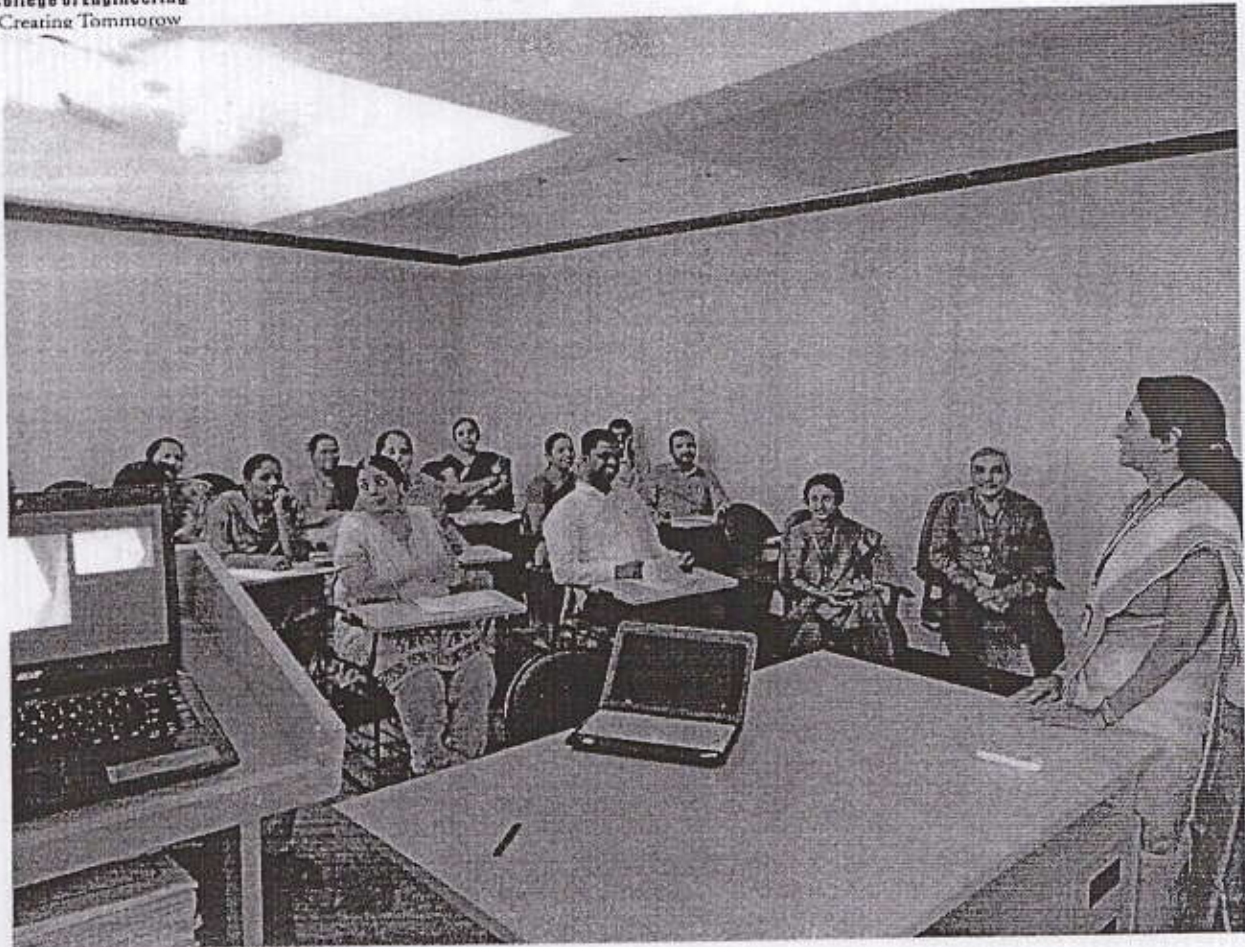
The programme was attended by 11 participants on 06/08/2018 from Sapthagiri College of Engineering. Attendees included only Office staff from varied background. While designing the structure of the programme it was kept in mind that there are going to be people from different background that's why emphasis was given on workplace communication skill as a whole not pertaining to one single field so that maximum can be benefitted out of it.

### Summary

The speaker explained what workplace communication skill was all about. She connected things starting from the verbal to non-verbal communication. She described how the process of workplace communication skill takes place in the college. She emphasized on the framing of the workplace communication skill and held it to be the fundamental and initial step to adopt all the staff. She made the sessions interactive and based on various examples for better understanding of the workplace communication skill. Last but not the least when the houses were open for questions the office staff were keen to ask and with the same level of enthusiasm they were justifiably answered by professor.

  
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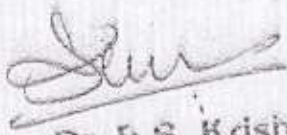


Speaker: Dr. Roopa K P, Dept. of Chemistry

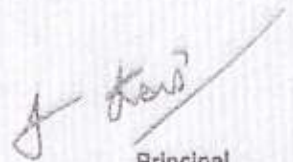
Topic: Workplace communication skill

Morning session: Presentation

Afternoon session: Group Discussion



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



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


*Bangalore-560057*

# *Certificate*

*This is to certify that Mr. /Ms. Nayanahangaraj*  
*of Sapthagiri College of Engineering has participated and successfully*  
*completed one day Staff Development Program on "Workplace Communication*  
*Skills" organized by the Department of Basic Science, Sapthagiri College of*  
*Engineering held on 06/08/2018 (Monday)*

  
**Dr. B S Krishna**

*HOD, Dept. of Chemistry*

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

  
**Principal**



## Internal Quality Assurance Cell

Date: 04/6/2018

To,

The Principal

Sapthagiri College of Engineering

Bangalore-560057

From,

IQAC Coordinator

Sapthagiri College of Engineering

Bangalore-560057


Respected sir,

**SUBJECT: Requisition for permission to conduct 3 day Workshop titled  
"Teacher Empowerment".**

IQAC is planning to conduct a workshop titled "Teacher empowerment" from 23<sup>rd</sup> July, 2018 to 25<sup>th</sup> July, 2018 for all the faculties of our institute to enhance the knowledge on accreditation process. So in this regard we request you to permit for the workshop conduction and sanction the needful amount

Thanking you sir

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

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



# INVITATION

*Cordially invite you for*

*Workshop on*

***"TEACHER EMPOWERMENT"***

**July 23<sup>rd</sup> -25<sup>th</sup>, 2018**


**Resource persons are:**

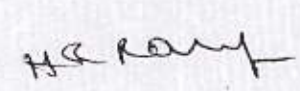
1. Dr. Guruprasad H S
2. Dr. R Krishna
3. Dr. Girija
4. Dr. T N Raja
5. Dr. Ganesh Bhatta
6. Dr. S Srikantha Swamy

**Venue: seminar hall**

**Time: 9:00 AM**

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Sapthagiri College of Engineering  
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Bangalore - 560 057

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

  
IQAC Co-ordinator



## Internal Quality Assurance Cell

Date: 16/07/2018

### Circular

It is hereby informed for all the faculties of various department to attend 3 day workshop titled "Teacher Empowerment" organized by the IQAC cell from 23/07/2018 to 25/07/2018 at seminar hall.




Coordinator



Chairman

CC:

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



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



Principal  
Sapthagiri College of Engineering  
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**Faculty Development Program**  
**On**  
**Teacher Empowerment**  
(23<sup>rd</sup> to 25<sup>th</sup> July 2018)

**Program Schedule:**

Date/Day	Time	Topic	Resource Person
23- 7- 2018 Monday	9 30 am- 10.30 am	Registration, Inauguration	
	10.30 am -10.45am	Tea Break	
	10.45am – 12.00noon	Components Of Effective Teaching	Dr. S. SrikantaSwamy
	12.00noon-1.30pm	How To Develop Thinking Skills?	
	1.30- 2.00pm	Lunch Break	
	2.00PM -3.15PM	Taxonomy Of Educational Objectives	Dr. Ganesh Bhatta
	3.15pm-3.30pm	Tea Break	
	3.30PM-4.30PM	Lesson Plan Design	Dr. Ganesh Bhatta
	4.30pm	Group Work	
	24- 7- 2018 Tuesday	10.00am – 11.15am	Rubrics For Assessment
11.15am-11.30am		Tea Break	
11 30am-1.00pm		Characteristics Of Question Paper	Dr. Girija
1.00- 2.00pm		Lunch Break	
2.00pm-3.15pm		Psychological Behavior	Dr. R Krishna
3.15pm-3.30pm		Tea Break	
3.30pm-4.30pm		Psychological Behavior	Dr. R Krishna
4.30pm		Group Work	
25- 7- 2018 Wednesday	10.00am – 11.15am	Concept Of Micro Teaching Skills	Dr. T.N.Raju
	11.15am-11.30am	Tea Break	
	11.30am-1.00pm	Demonstration of Micro Teaching Skills	Dr. T.N.Raju
	1.00pm -2.00pm	Lunch Break	
	2.00pm-3.15pm	Outcome Based Education	Dr. Guruprasad H S
	3.15pm-3.30pm	Tea Break	
	3.30pm-4.30pm	Program Outcomes Related To OBE	Dr. Guruprasad H S
	4.30pm	Conclusion & Feedback	

- Sd -  
Dr.K.R.Nagabhusana  
Administrative Officer

- Sd -  
Dr. Shivabassappa K L  
Professor & Principal

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

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



## REGISTRATION FORM

### Three days FDP on "TEACHER EMPOWERMENT"

23-25 July 2018

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

### 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. The college has secured 22 University ranks and 4 Gold medals

### Resource persons are:

1. Dr. Guruprasad H S  
Professor, BMSCE, Bengaluru
2. Dr. R Krishna  
Director -PG studies Cambridge  
institute of technology, Bengaluru
3. Dr. T N Raju,  
Professor, BES College of education  
Bengaluru
4. Dr. Girija
5. Dr. Ganesh Bhatta
6. Dr. S Srikantha Swamy

### 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

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

Dr. Shivabasappa K L  
Principal, SCE, Bengaluru

Program Coordinator  
**Dr. H R Ranganatha**

Professor & Head  
Dept of ISE, SCE

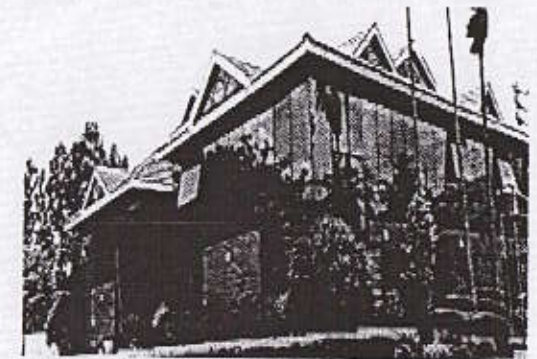


Three Day Faculty Development  
Program  
on

Teacher Empowerment

23-25 July 2018

Organized by  
IQAC



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



## Faculty Development Program on "Teacher Empowerment"

[23-07-2018 to 25-07-2018]

### Department of Computer Science & Engineering

Sl. No	Name of the Faculty	DAY1		DAY2		DAY3		REMARKS
		FN	AN	FN	AN	FN	AN	
1	Dr. YOGISH H K	YH	YH	YH	YH	YH	YH	
2	KAMALAKSHI NAGANNA	KN	KN	KN	KN	KN	KN	
3	CHAITHRA	CH	CH	CH	CH	CH	CH	
4	LATHA A	LA	LA	LA	LA	LA	LA	
5	MADHUSHREE	MS	MS	MS	MS	MS	MS	
6	VEENA K R	VK	VK	VK	VK	VK	VK	
7	ANURADHA BADAGE	AB	AB	AB	AB	AB	AB	
8	KAVITHA G	KG	KG	KG	KG	KG	KG	
9	SHRUTHI N	SN	SN	SN	SN	SN	SN	
10	SURIYA PRAKASH, J	SP	SP	SP	SP	SP	SP	
11	KAVYA N L	KNL	KNL	KNL	KNL	KNL	KNL	
12	NANDA M B	NMB	NMB	NMB	NMB	NMB	NMB	
13	AEHISHEK K L	AKL	AKL	AKL	AKL	AKL	AKL	
14	SHILPA M	SM	SM	SM	SM	SM	SM	
15	SRIKANTH M S	SMs	SMs	SMs	SMs	SMs	SMs	
16	GAJENDRA PRASAD K C	GPKC	GPKC	GPKC	GPKC	GPKC	GPKC	
17	ARUN KUMAR S	AKS	AKS	AKS	AKS	AKS	AKS	
18	RAMANAGOUDA S PATIL	AS	AS	AS	AS	AS	AS	
19	ASHOK K PATIL	DCS duty						
20	MAMATHA A	MA	MA	MA	MA	MA	MA	
21	SNEHA G	SG	SG	SG	SG	SG	SG	
22	SUPREETHA S	SS	SS	SS	SS	SS	SS	



## Faculty Development Program on "Teacher Empowerment"

[23-07-2018 to 25-07-2018]

### Department of Mechanical Engineering

Sl. No	Name of the Faculty	DAY1		DAY2		DAY3		REMARKS
		FN	AN	FN	AN	FN	AN	
1	Dr. MAHADEVASWAMY P							
2	Dr. TULSIDAS D							
3	MAHESHA A M							
4	JAGANNATH G R							
5	RAGUTHAMA RAO P							
6	PADMANABHA G							
7	RAM KUMAR M							
8	RAMESH N G							
9	MADHU KUMAR Y C							
10	ARUN KUMAR R							
11	PRAMOD S V							
12	PRATHIMA C N							
13	ANIL KUMAR P R							
14	MAHADEV PRASAD L							
15	VENKATA RAJESH							
16	MAHESH S							
17	TILAK S R							
18	ULLAS C S							
19	NATARAJU H N							
20	RAJALAKSHMI S							
21	HEMANTH KUMAR H R							
22	CHETAN B P							
23	BASAVARAJ GANIGER							

24: Siva Murugan



## Faculty Development Program on "Teacher Empowerment"

[23-07-2018 to 25-07-2018]

### Department of Physics

Sl. No	Name of the Faculty	DAY1		DAY2		DAY3		REMARKS
		FN	AN	FN	AN	FN	AN	
1	Dr. JAGADEESHA GOWDA G V							
2	SHASHIKALA B S	CL	CL	CL	CL	<del>CL</del>	<del>CL</del>	Dna to fever
3	GNANEDRA D S	OOD	←	OOD	→			Day 1 & Day 2 could not attend
4	DEVARAJA C	<del>CL</del>	<del>CL</del>	<del>CL</del>	<del>CL</del>	<del>CL</del>	<del>CL</del>	
5	KESHAVA MURTHY. K	<del>CL</del>	<del>CL</del>	<del>CL</del>	<del>CL</del>	<del>CL</del>	<del>CL</del>	
6	RangaSwamy DR	<del>CL</del>	<del>CL</del>	<del>CL</del>	<del>CL</del>	<del>CL</del>	<del>CL</del>	

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Bengaluru-560 057



**Faculty Development Program on "Teacher Empowerment"**

[23-07-2018 to 25-07-2018]

**Department of Chemistry**

Sl. No	Name of the Faculty	DAY1		DAY2		DAY3		REMARKS
		FN	AN	FN	AN	FN	AN	
1	Dr. KRISHNA B S							
2	ROOPA K P	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
3	RAVIKANTHA N	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
4	ANUSUYA M	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
5	BHARATH K DEVENDRA	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

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

## Faculty Development Program on "Teacher Empowerment"

[23-07-2018 to 25-07-2018].

### Department of Mathematics

Sl. No	Name of the Faculty	DAY1		DAY2		DAY3		REMARKS
		FN	AN	FN	AN	FN	AN	
1	PUSHPA B V							
2	KIRAN S							
3	BHAVYA N P							
4	BINDU M G							
5	MUNIRATNA MMA M							
6	ROOPA K R							
7	SANTHOSH H C							
8	NANDINI B J							
9	KOWSHIK H N							

Principal

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Bengaluru - 560 057

Principal

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Chikkasandra, Hesaraghatta Road,  
Bengaluru - 560 057



**Faculty Development Program on "Teacher Empowerment"**

[23-07-2018 to 25-07-2018]

**Department of Information science and Engineering**

Sl. No	Name of the Faculty	DAY1		DAY2		DAY3		REMARKS
		FN	AN	FN	AN	FN	AN	
1	Dr. RANGANATH H R							
2	PRERANA CHAITHRA	<i>Per</i>	<i>Per</i>	<i>Per</i>	<i>Per</i>	<i>Per</i>	<i>Per</i>	
3	MALATHI K P							
4	GAYATHRI R	<i>GR</i>	<i>GR</i>	<i>GR</i>	<i>GR</i>	<i>GR</i>	<i>GR</i>	
5	RAMYA R	<i>WR</i>	<i>WR</i>	<i>WR</i>	<i>WR</i>	<i>WR</i>	<i>WR</i>	
6	SHEETHAL RAJ T G	<i>STG</i>	<i>STG</i>	<i>STG</i>	<i>STG</i>	<i>STG</i>	<i>STG</i>	
7	DIVYASHREE G	<i>DG</i>	<i>DG</i>	<i>DG</i>	<i>DG</i>	<i>DG</i>	<i>DG</i>	
8	VIJAY KUMAR F G							
9	SOWMYA SOMANATH	<i>SS</i>	<i>SS</i>	<i>SS</i>	<i>SS</i>	<i>SS</i>	<i>SS</i>	
10	SANJAY KUMAR J H							
11	RAVICHANDRA M	<i>RM</i>	<i>RM</i>	<i>RM</i>	<i>RM</i>	<i>RM</i>	<i>RM</i>	
12	BHAVYA A	<i>BA</i>	<i>BA</i>	<i>BA</i>	<i>BA</i>	<i>BA</i>	<i>BA</i>	
13	PRANEETHA G N	<i>PGN</i>	<i>PGN</i>			<i>PGN</i>	<i>PGN</i>	
14	TEJASWINI B S	<i>TBS</i>	<i>TBS</i>	<i>TBS</i>	<i>TBS</i>	<i>TBS</i>	<i>TBS</i>	
15	MEGHANA N M	<i>MNM</i>	<i>MNM</i>	<i>MNM</i>	<i>MNM</i>	<i>MNM</i>	<i>MNM</i>	
16	AMBIKA S	<i>AS</i>	<i>AS</i>	<i>AS</i>	<i>AS</i>	<i>AS</i>	<i>AS</i>	
17	SUNITHA K	<i>SK</i>	<i>SK</i>	<i>SK</i>	<i>SK</i>	<i>SK</i>	<i>SK</i>	
18	VINEETHA	<i>VB</i>	<i>VB</i>	<i>VB</i>	<i>VB</i>	<i>VB</i>	<i>VB</i>	
19	BHAVATARINI N	<i>BN</i>	<i>BN</i>	<i>BN</i>	<i>BN</i>	<i>BN</i>	<i>BN</i>	
20	VEENA V	<i>VV</i>	<i>VV</i>	<i>VV</i>	<i>VV</i>	<i>VV</i>	<i>VV</i>	
21	KAVYASHREE K	<i>KK</i>	<i>KK</i>	<i>KK</i>	<i>KK</i>	<i>KK</i>	<i>KK</i>	
22	CHAITHRA B M	<i>CBM</i>	<i>CBM</i>	<i>CBM</i>	<i>CBM</i>	<i>CBM</i>	<i>CBM</i>	

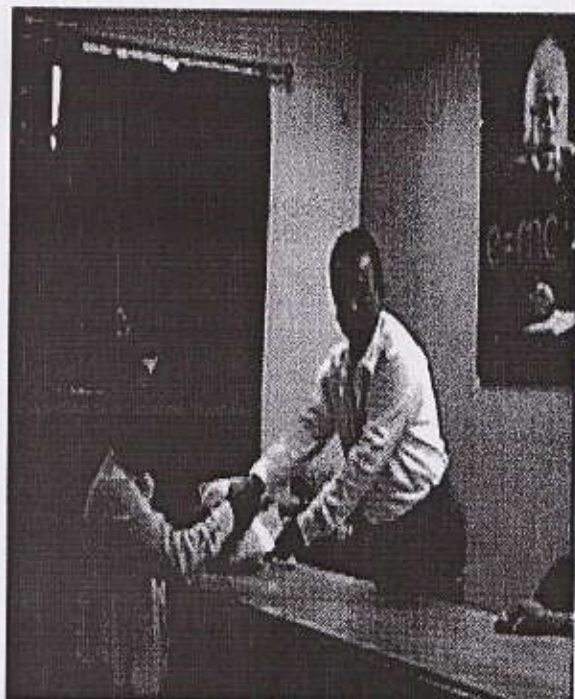


## Report on Faculty Development Program of Teacher Empowerment (23<sup>rd</sup> July 2018 to 25<sup>th</sup> July 2018)

Dr. Srikantaswamy Professor Emeritus, RVCE and Dr. Ganesh Bhatta Professor Emeritus and former Principal, MES college were the chief guests on 23 July 2018. Dr. Srikantaswamy delivered a talk on components of effective teaching and how to develop teaching skills. Dr. Ganesh Bhatta presented a talk on taxonomy of educational objectives and lesson plan design.

Dr. Girija and Dr. R Krishna were chief guests on 24 July 2018. Dr. Girija delivered talk on Rubrics for assessment and characteristics of Question paper and Dr. R Krishna spoke on psychological behaviour.

Dr. T N Raju and Dr. Guruprasad H S were chief guests on 25 July 2018. Dr. T N Raju helped audience to understand concepts of micro teaching skills and also demonstrated micro teaching skills. Dr. Guruprasad H S gave talk on outcome based education and program outcomes related to OBE.



Dr. Guruprasad delivering about course outcomes and our Principal issuing certificate to Dr. Ranganath, ISE HoD, SCE.

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DEPARTMENT OF CIVIL ENGINEERING

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**ACADEMIC YEAR 2018-2019**

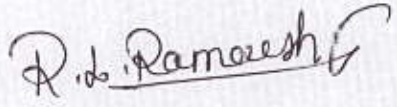
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Date: 07/13/2019

**CIRCULAR**

Faculties are hereby informed about FDP being conducted by our department titled as " CIVIL ENGINEERING SOFTWARES" for days from 16<sup>TH</sup> July 2018 to 20<sup>th</sup> July 2018. Interested faculties can register their names with Prof. Geetha T S

  
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HOD

Dept. of civil





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**ACADEMIC YEAR 2018-2019**

**Detailed Syllabus & Schedule**

**DAY 1 - Introduction**

**Date: 16/07/2018**

Time	Topics
08:30 am To 10:15 am	Inauguration of FDP At Sapthagiri College Of Engineering and general talk on faculty development programme
<b>Tea Break</b>	
10:30 am To 12:30 pm	Introduction A/ Content and pedagogical methods in class: (6) Content: Overview of, Introduction to the steps to model, calculate and design structures,
<b>Lunch Break</b>	
01:30 pm To 03:00 pm	Overview of ETABS and SAFE software.
<b>Tea Break</b>	
03:15 pm To 04:00 pm	Some example about simply structures. Compare results of from ETABS software with direct.

**DAY 2 - Modeling of 2D frame systems**

**Date: 17/07/2018**

Time	Topics
08:30 am To 10:15 am	solutions Introduction to the interface of ETABS software. Pedagogical methods, Computer-aided instruction ,
10:30 am To 12:30 pm	Students practice , Group working Local coordinate system – Global coordinate system , Rules of objects such as frame element, shell element in ETABS software,
01:30 pm To 03:00 pm	Define and assign materials and sections Examples, Assignment in group working: define load for 2D frame from architectural drawings.
03:15 pm To 04:00 pm	Pedagogical methods, Computer-aided instruction Define and assign load case, load combination.

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**ACADEMIC YEAR 2018-2019**

**DAY 3 – Model 3D moment resisting frame system**

**Date: 18/07/2018**

Time	Topics
08:30 am To 10:15 am	Modeling 2D frame systems carried about the horizontal and vertical load (uniform load, trapezoidal load). Analyze simply 2D frame by finite element method.
<b>Tea Break</b>	
10:30 am To 12:30 pm	After comparing with result analysis from ETABS software. Using analysis results such as internal force, reaction for structural design.
<b>Lunch Break</b>	
01:30 pm To 03:00 pm	Mesh and automesh for area objects, Examples, The methods assign horizontal load.
<b>Tea Break</b>	
03:15 pm To 04:15 pm	Model 3D frame system – Without Shear wall system, Using analysis result such as internal force, reaction.

**DAY 4 – Model 3D moment resisting frame system**

**Date: 19/07/2018**

Time	Topics
08:30 am To 10:15 am	Presenting the basic contents using powerpoint and computer-aided instruction Mesh and automesh for wall objects, Dynamical analysis of Structures,
<b>Tea Break</b>	
10:30 am To 12:30 pm	Model 3D shear wall and frame, Wind load and Earthquake load.,
<b>Lunch Break</b>	
01:30 pm To 03:00 pm	Using analysis results such as internal force. Mesh and auto mesh for area objects, Examples
<b>Tea Break</b>	
03:15 pm To 04:15 pm	The methods assign horizontal load, Model 3D frame system – Without Shear wall system

**DAY 5 – Model 3D moment resisting frame system**

  
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ACADEMIC YEAR 2018-2019

Date: 20/07/2018

Time	Topics
08:30 am To 10:15 am	Using analysis result such as internal force, reaction for structure.
Tea Break	
10:30 am To 12:30 pm	Presenting the basic contents using power point and computer-aided instruction
Lunch Break	
01:30 pm	Valedictory program

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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 Late Giriyappa, 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 Trust, Sapthagiri Group of Institutions

### Patrons

**Dr. K N Ravi**

Principal, SCE, Bengaluru

### Convener

Dr. R L Ramesh

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

### FDP Coordinator

Mrs. Geetha T S

Asst. Professor, SCE, Bengaluru

### Faculty Development Programme

On

**Civil Engineering Software**

On

**16<sup>th</sup> -18<sup>th</sup> July 2018**

**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 E TABS and SAFE software
- Understanding Of steps to model, calculate and design of structure
- Analysis of simple structure
- Defining and assigning of loads
- Working with 2D frame from Architectural drawing
- Finding of reactions
- working with 3D modelling
- Mesh and auto mesh for wall.

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DEPARTMENT OF CIVIL ENGINEERING

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ACADEMIC YEAR 2018-2019

FACULTY DEVELOPMENT PROGRAMME

ON CIVIL ENGINEERING SOFTWARES

Faculty Attendance

classes Conducted on CIVIL ENGINEERING SOFTWARES

Sl No.	Faculty Name	Designation	Signature
1	DR R L RAMESH	HOD	R.L. Ramesh
2	Prof. PRAMOD.K.R	Assistant professor	[Signature]
3	Prof. GEETHA.T.S	Assistant professor	[Signature]
4	Prof. KRUPA.T.L	Assistant professor	[Signature]
5	Prof. AKSHAY. J	Assistant professor	[Signature]
6	Prof. RAGHAVENDRA R	Assistant professor	[Signature]
7	Prof. DHIRUVARAJ.M.S	Assistant professor	[Signature]
8	Prof. PALLAVI.G.A	Assistant professor	Pallavi G.A
9	Prof. NAVYA. N	Assistant professor	[Signature]

[Signature]  
Signature of coordinator

R.L. Ramesh  
Signature of HOD

[Signature]  
Principal  
Sapthagiri College of Engineering  
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Bengaluru - 560 057



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**ACADEMIC YEAR 2018-2019**

**Report On 'CIVIL ENGINEERING SOFTWARES '**

Aiming to provide an intense training on civil engineering softwares for our civil engineering faculties, Sapthagiri College of Engineering held during from 16<sup>TH</sup> July 2018 to 20<sup>th</sup> July 2018.

Overall the faculties felt that the session was informative & gain knowledge about the softwares

This three days Faculty Development Program (FDP) in collaboration with autodesk , was organised successfully with participation of faculties of civil department. The FDP addresses the various aspects of Advances in civil engineering softwares and promotes student centric effective teaching-learning pedagogy among the participants. This course was aimed for teachers who are teaching various disciplines of civil engineering subjects in colleges. The participants registered for this programme and successfully completed the programme. The hionourable principal of Sapthagiri engineering college Dr. K N Ravi , and toadys speaker Ragavendra R And Geetha T S, Prof R L Ramesh the HOD of the civil engineering department, inaugurated the programme. In his inaugural address, Prof Geetha T S stressed upon the paracigm changes from black board based teaching to modern software base teaching and the importance of using online tools for teaching and evaluation in present days.



*R. L. Ramesh*  
HOD

*R*  
Principal  
Sapthagiri College of Engineering  
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*Dr. K. N. Ravi*  
PRINCIPAL  
Principal  
Sapthagiri College of Engineering  
14/5, Chikkasandra, Hesaraghatta Main Road  
Bengaluru - 560 057



# Sapthagiri College of Engineering

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## Certificate

This is to Certify that Mr./Mrs. Bhruvaraj M.S of has participated and successfully completed Three days Workshop on "Civil Engineering Software" from

16<sup>th</sup> July to 18<sup>th</sup> July 2018 organized by the Civil Engineering Department, Sapthagiri College of Engineering.

P.d. Ramessetty  
HOD  
Dept. of CV

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

[Signature]  
Principal





DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

**SAPTHAGIRI COLLEGE OF ENGINEERING**

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**ACADEMIC YEAR 2018-2019**

Date: 12/07/2018

**CIRCULAR**

Faculties are hereby informed that the department is conducting a three days faculty development programme titled as **Android and Mobile Application Development** for our faculties for their technical developments from 19th July 2018 to 21<sup>st</sup> July 2018. Interested faculties can register their names with Prof. Kavitha G, Assistant Professor and Prof. Srikanth M S, Assistant Professor.

Copy to

1. The office of the Principal
2. HODs: CSE/ECE/EEE/IS/ME/CV/BT/PHY/CHE/MATE

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

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





DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

## SAPTHAGIRI COLLEGE OF ENGINEERING

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ACADEMIC YEAR 2018-2019

### Three days FDP on “Android and Mobile Application Development”

On

July 19<sup>th</sup> -21<sup>st</sup>, 2018

Programme schedule:

DATE/DAY	TIME	EVENT, SPEAKER & TOPIC COVERED	VENUE
19/07/2018, THURSDAY	9:00 AM-10:00 AM	Registration	Academic Block Entrance
	10:00 AM -10:40 am	Inaugural Function	ALH-114
	10:40 am -11 :00 am	Tea Break	
	11:00 am -1:00 pm	<b>Lecture-1: Dr. Yogish H K</b> <ul style="list-style-type: none"> <li>• Introduction</li> <li>• Client Hardware (Desktop vs. Mobile)</li> </ul>	ALH-114
	1:00 pm- 2:00pm	Lunch Break	
	2:00pm -4:00 pm	<b>Lecture-2: Prof. Chaithra</b> <ul style="list-style-type: none"> <li>• Android Development w/ Java</li> <li>• iOS Development w/ Swift</li> </ul>	ALH-114
20/07/2018, FRIDAY	9:00 AM-10:40 AM	<b>Lecture-3: Dr. Yogish H K</b> <ul style="list-style-type: none"> <li>• RESTful and Non-RESTful apps</li> <li>• Creating and Incorporating Web/Cloud Services</li> </ul>	ALH-114
	10:40 am -11 :00 am	Tea Break	
	11:00 am -1:00 pm	<b>Lecture-5: Prof. Chaithra</b> <ul style="list-style-type: none"> <li>• Security and Trust Management</li> <li>• Mobile Sensors</li> </ul>	ALH-114
	1:00 pm- 2:00pm	Lunch Break	
	2:00pm -4:00 pm	<b>Lecture-6: Prof. Gagendra Prasad K C</b> <ul style="list-style-type: none"> <li>• Hands on session</li> </ul>	ALH-114
21/07/2018, SATURDAY	9:00 AM-10:40 AM	<b>Lecture-6: Prof. Gagendra Prasad K C</b> <ul style="list-style-type: none"> <li>• Privacy and Ethics</li> <li>• Usability and Accessibility</li> </ul>	ALH-114
	10:40 am -11 :00 am	Tea Break	
	11:00 am -1:00 pm	Certificate Distribution	ALH-114

Principal

Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road.



### Registration Details

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

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

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

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

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

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

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

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

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

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

#### Patrons:

Dr. K L Shivabasappa,  
Principal, SCE

Dr. Nagabhushana K R  
Administrative Officer, SCE

#### Organizing Chair:

Dr. Yogish H K  
Professor & Head

#### Co-ordinator:

Prof. Kavitha G  
Assistant Professor  
Prof. Srikanth M S  
Assistant Professor

**Principal**  
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Chikkasandra, Hesarghatta Road,  
Bangalore- 560 057



**SAPTHAGIRI COLLEGE OF  
ENGINEERING**  
*Three days Faculty Development  
Programme on*  
**“Android and Mobile  
Application  
Development”**  
19<sup>th</sup> July to 21<sup>st</sup> July 2018



#### Organized by:

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

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

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Fax: 28372797. [www.sapthagiri.edu.in](http://www.sapthagiri.edu.in)



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**ACADEMIC YEAR 2018-2019**

**Three days FDP on "Android and Mobile Application Development"**

**ATTENDANCE REPORT**

SL. No.	Name	Day 1- 19/7/2018		Day 2- 20/7/2018		Day 3- 21/7/2018	
		FN	AN	FN	AN	FN	AN
1	Dr. KAMALAKSHI NAGANNA						
2	Prof. CHAITHRA						
3	Prof. RAMANAGOUDA S PATIL						
4	Prof. LATHA A						
5	Prof. SURIYA PRAKASH						
6	Prof. MADHU SHREE						
7	Prof. MAMATHA A						
8	Prof. VEENA K.R						
9	Prof. KAVITHA G						
10	Prof. SRIKANTH M S						
11	Prof. GAJENDRA PRASAD						
12	Prof. NANDA.M.B						
13	Prof. ANURADHA BADAGE						
14	Prof. SHILPA M						
15	Prof. KAVYA N.L						
16	Prof. SUPREETHA S						
17	Prof. SNEHA G						
18	Prof. ARUN KUMAR						
19	Prof. ABISHEK K L						

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ACADEMIC YEAR 2018-2019

**REPORT ON**

**Three days FDP on “Android and Mobile Application Development” July 19<sup>th</sup> -21<sup>st</sup>, 2018**

It was organized by Department of Computer Science and Engineering, SCE from 19<sup>th</sup> to 21<sup>st</sup> July, 2018. The topics covered under FDP were Overview of android and setting up of Development Environment, creating android project, layout techniques, building apps with merus and multimedia. It included practice sessions as well. It was attended by the faculty of CSE department.



Glimpse of FDP

Hand on Session

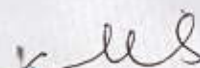


Convener



Principal

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



Chairman



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

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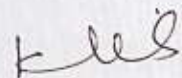
**ACADEMIC YEAR 2018-2019**



FDP Ended with Photo Session



Convener



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



Principal  
Sapthagiri College of Engineering  
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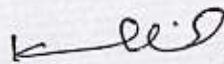
# SAPTHAGIRI COLLEGE OF ENGINEERING


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

## Certificate of Participation

This is to certify that

Mr./Ms. Prof. Chaitra  
Successfully participated in the Faculty Development Program on "Android and Mobile Application Development" from 19/07/2018 to 21/07/2018 organized by Department of Computer Science & Engineering, Sapthagiri College of Engineering, Bengaluru-560057.

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

  
Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesarghatta Road,  
Bengaluru-560057

PRINCIPAL  
Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesarghatta Road,  
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ACADEMIC YEAR 2018-2019

Date: 11/07/2018

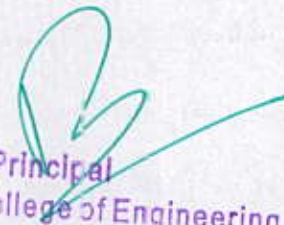
### CIRCULAR

Department of Electronics and Communication Engineering is conducting a five days faculty development programme on **Machine Learning** for the technical developments of the faculty from 16<sup>th</sup> July 2018 to 20<sup>th</sup> July 2018. All the faculty can register their names with Prof Varshini K and Prof Karthik N C.



Department of ECE

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



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





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**ACADEMIC YEAR 2018-2019**

### Minutes of Meeting

A meeting of all the faculty was held on 04/07/2018 at HOD's office, Department of ECE, Sapthagiri College of Engineering.

In the meeting the syllabus, schedule of five days faculty development programme on **Machine Learning** to faculty members was discussed and approved by the HOD.

Programme schedule:

#### Detailed Syllabus & Schedule

##### DAY 1 - Supervised learning


Date: 16/07/2018

Time	Topics
08:30 am To 10:15 am	Class overview: Class organization, topics overview, software etc. Introduction: what is ML; Problems, data, and tools; Visualization; Matlab•
Tea Break	
10:30 am To 12:30 pm	Linear regression; SSE; gradient descent; closed form; normal equations; features
Lunch Break	
01:30 pm To 03:00 pm	Overfitting and complexity; training, validation, test data, and introduction to Matlab (II)
Tea Break	
03:15 pm To 04:00 pm	Classification problems; decision boundaries; nearest neighbor methods

##### DAY 2 - Unsupervised learning

Date: 17/07/2018

Time	Topics
08:30 am To 10:15 am	Probability and classification, Bayes optimal decisions
10:30 am To 12:30 pm	Linear classifiers Bayes' Rule and Naive Bayes Model

  
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### ACADEMIC YEAR 2018-2019

01:30 pm To 03:00 pm	Logistic regression, online gradient descent, Neural Networks
03:15 pm To 04:00 pm	Ensemble methods: Bagging, random forests, boosting

#### DAY 3 – learning theory

Date: 18/07/2018

Time	Topics
08:30 am To 10:15 am	Unsupervised learning: clustering, k-means, hierarchical agglomeration
<b>Tea Break</b>	
10:30 am To 12:30 pm	Advanced discussion on clustering and EM
<b>Lunch Break</b>	
01:30 pm To 03:00 pm	Latent space methods; PCA
<b>Tea Break</b>	
03:15 pm To 04:15 pm	Text representations; naive Bayes and multinomial models; clustering and latent space models

#### DAY 4 – Reinforcement learning

Date: 19/07/2018

Time	Topics
08:30 am To 10:15 am	VC-dimension, structural risk minimization; margin methods and support vector machines (SVM)
<b>Tea Break</b>	

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### ACADEMIC YEAR 2018-2019

10:30 am To 12:30 pm	Support vector machines and large-margin classifiers
<b>Lunch Break</b>	
01:30 pm To 03:00 pm	Time series; Markov models; autoregressive models
<b>Tea Break</b>	
03:15 pm To 04:15 pm	Introduction: what is ML; Problems, data, and tools; Visualization; Matlab (I)

### DAY 5 – Adaptive control.

**Date: 20/07/2018**

Time	Topics
08:30 am To 10:15 am	Overfitting and complexity; training, validation, test data, and introduction to Matlab (II)
<b>Tea Break</b>	
10:30 am To 12:30 pm	Naive Bayes and Gaussian class-conditional distribution
<b>Lunch Break</b>	
01:30 pm To 03:00 pm	Mid-term
<b>Tea Break</b>	
03:15 pm To 04:00 pm	Decision tree and Review for Mid-term

Principal

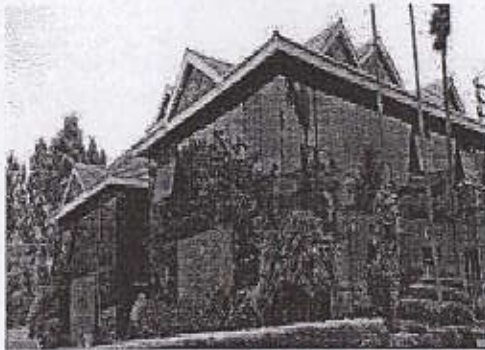
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**5 Days FDP  
on  
"Machine Learning"  
16<sup>th</sup> July 2018 to 20<sup>th</sup> July 2018**

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



**Sapthagiri College of  
Engineering**

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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

- Introduction to Machine learning
- Linear discriminate
- SVM
- Machine learning algorithms
- ANN and machine learning, deep learning.

### Resource Persons:

**Dr.M S Patel**

Professor and Head

Department of CSE

M S Engineering college,Bengaluru.

Qualification B. Tech (CSE). MTech. PhD.

**Prof.Chaitra**

Assoc. professor

Department of CSE, SCE, Bangalore

Qualification B. Tech. MTech. (PhD)

### Address for Registration /Communication

**Prof. Karthik N C : 8880666613**



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**ACADEMIC YEAR 2018-2019**

**2018-19(ODD)**

**List of participants and Attendance FDP on "Machine Learning"**  
**From 16<sup>th</sup> July 2018 to 20<sup>th</sup> July 2018**

Sl. No.	Name of the Faculty	16/07/18		17/07/18		18/07/18		19/07/18		20/07/18	
		FN	AN	FN	AN	FN	AN	FN	AN	FN	AN
1	Satish mureshi	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2	Shobha.S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3	Padmavathi.C	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
4	Vinay.H.C	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
5	SUMA.C	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
6	SHWETHA.G	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
7	Preethi.T.S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
8	SHOBHA.H	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
9	Karthik.N.C	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
10	Ravishankar M.N	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
11	Suma V Shetty	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
12	Shilpa.V	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
13	Prathiba.P	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
14	Vani.A.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
15	Vani.V	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
16	Sandhya Rani.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
17	Sasmita Mohapatra	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
18	<del>Prasanna K</del>										
19	Vaashini.K	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
20	Thimmazai Satu	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
21	Thippaswamy	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
22	Sudha.M.S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
23	Sangeetha K Sibi	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
24	Agalya.P	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓





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### Department of Electronics and Communication

#### FDP report on "Machine Learning"

Date: 16.07.2018 to 20.07.2018

Time: 9 AM to 4 PM

Venue: DSP and HDL Lab, Faraday block, SCE

#### RESOURCE PERSONS PROFILE:

1. Name: Dr. M S Patel

Current Status: Professor and Head

Department of CSE

M S Engineering college, Bengaluru.

Qualification B. Tech (CSE), MTech, PhD.

**Professional Experience:** Has 20 years of Teaching experience in various subjects. Started his career as a Lecturer in SJMIT Chitradurga, Karnataka. Has published many papers in national and international level journals. Has got second prize national level project exhibition. Has also chairperson and keynote addressor for many conferences.

2. Name: Chaitra

Current status: Assoc. professor

Department of CSE, SCE, Bangalore

Qualification B. Tech, MTech, (PhD)

**Professional Experience:** Has 16+ years of Teaching experience in various subjects. Currently working as associate professor in the department of computer science and Engineering, Sapthagiri college of Engineering, Bangalore.

Principal

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## Department of Electronics and Communication

### Summary Report

Faculty development programme was conducted on Machine Learning from July 16<sup>th</sup> to July 20<sup>th</sup> 2018. The session started with basics of Machine learning, and real time applications. Machine learning is an application of artificial intelligence (AI) that provides frameworks the capacity to consequently take in and enhance as a matter of fact without being unequivocally customized or explicitly programmed. Though AI and Machine Learning have been progressively developing approaches to solve many problems, however, the previous approaches are still applied and in many real-world problems a combination of deep and machine learning works best as experimentally proven.

Supervised learning is the machine learning task of learning a function that maps an input to an output based on example input output pairs, it infers a function from labelled training data. Unsupervised learning is where you only have input data and no corresponding variables.

On the second day session was started by resource person with simple classifiers such as linear discriminant SVM and K nearest neighbor. SVMs are supervised machine learning algorithms which are mainly used for classification and up to some extent, to solve regression problems.

On the last day session was started by resource person with differences between ANN and machine learning, Machine learning and deep learning. A neural network is an oriented graph consisting of nodes, which according to the biological analogy is a representation of neurons corresponding to dendrites and synapses. The ANN is basically an information processing technique, working in a similar manner to a human brain.

The session 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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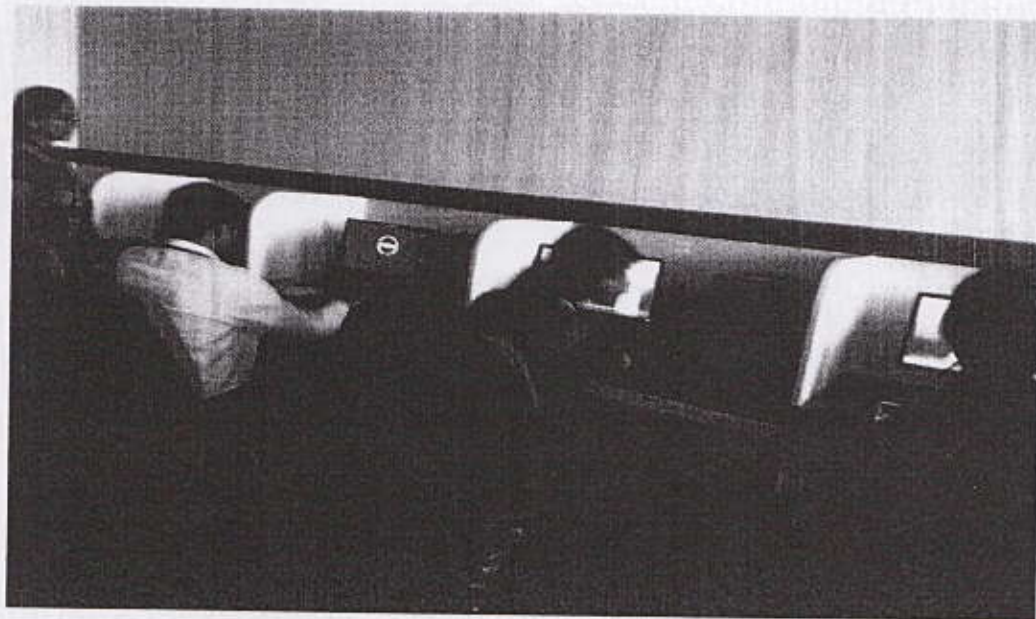
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### Department of Electronics and Communication



*Dr. M S Patel Professor delivering speech to participants*




*Hands-on on machine learning using MATLAB software*



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Chairman  
Academic committee

Head of the Department  
Electronics & Communication  
Sapthagiri College of Engineering



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## Certificate

*This is to Certify that Mr./Mrs. Shobha.S of has participated and successfully completed Five days Workshop on "Machine Learning" from 16<sup>th</sup> July to 20<sup>th</sup> July 2018 organized by the Electronics and Communication Engineering Department, Sapthagiri College of Engineering.*

  
HOD

Dept. of ECE

  
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Principal





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### DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

Date: 06/07/2018

### CIRCULAR

Faculties are hereby informed that department is conducting following FDP:

**Subject:** "Industrial drives and Applications"

**Date:** 16<sup>th</sup> July 2018 to 20<sup>th</sup> July 2018.

All are requested to attend the FDP without fail.

HOD

Dept. of EEE

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### DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

#### Minutes of Meeting

A meeting of the academic committee was held on 12/07/2018 at HOD's office, Department of EEE.

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

Committee discussed the syllabus, schedule, etc. to conduct three days FDP "Industrial drives and Applications" from 16<sup>th</sup> July 2018 to 20<sup>th</sup> July 2018 and the same was approved by the HOD.


#### Detailed Syllabus & Schedule

##### DAY 1 - Date: 16/07/2018

Time	Topics
09:30 am To 11.00 am	Inauguration, Invocation, welcome speech, Introduction of resource person, presidential address
Tea Break	
11:30 am To 1.30 pm	Introduction to drives, motors etc.
Lunch Break	
02:30 pm To 04:00 pm	Features and characteristics of AC & DC motors.

##### DAY 2 - Date: 17/07/2018

Time	Topics
09:30 am To 11.00 am	Application of DC drives for steel mill- cold rolling mill, steel melting shop
Tea Break	
11:30 am To 1.30 pm	Drives for steel mill- hot strip mill
Lunch Break	
02:30 pm To 04:00 pm	Drives for steel mill- slabbing mill

  
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### DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

#### DAY 3 – Date: 18/07/2018

Time	Topics
09:30 am To 11:00 am	Drives for steel mill- wire- rod mill
<b>Tea Break</b>	
11:30 am To 1.30 pm	Drives for steel mill-Cold Rolling Mill
<b>Lunch Break</b>	
02:30 pm To 04:00 pm	Drives for Rubber Industry

#### DAY 4 – Date: 19/07/2018

Time	Topics
09:30 am To 11:00 am	Drives for paper machine- introduction, Importance of accuracy of speed control, Tension control, etc
<b>Tea Break</b>	
11:30 am To 1.30 pm	Drives for Cement Mill– Furnace control, etc
<b>Lunch Break</b>	
02:30 pm To 04:00 pm	Drives for Traction

#### DAY 5 – Date: 20/07/2018

Time	Topics
09:30 am To 11:00 am	Drives for Electrolysis
<b>Tea Break</b>	
11:30 am To 1.30 pm	Question / Answer session
<b>Lunch Break</b>	
02:30 pm To 04:00 pm	Feed Back, Valedictory Function etc

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

**“Industrial drives and**  
**Applications”**

**FROM 16<sup>th</sup> July 2018 to 20<sup>th</sup> July 2018**

**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. Shivabasappa,**  
Principal, SCE, Bengaluru

**Program Coordinator**

**Prof. A Dhamodaran**  
Assistant Professor., EEE, SCE, Bengaluru

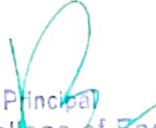
**MEMBERS**

**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 - 560 077



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

**“Industrial drives and**  
**Applications”**

**FROM**  
**16<sup>th</sup> July 2018 to 20<sup>th</sup> July 2018**

**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**

(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

**2018-19(ODD)**

**List of participants and Attendance FDP on "Industrial drives and Applications"**  
**From 16<sup>th</sup> July 2018 to 20<sup>th</sup> July 2018**

Sl. No.	Name of the Faculty	16/07/18		17/07/18		18/07/18	
		FN	AN	FN	AN	FN	AN
1	Rekha S.N	✓	✓	✓	✓	✓	✓
2	Guru Prasanna	✓	✓	✓	✓	✓	✓
3	Swetha .U	✓	✓	✓	✓	✓	✓
4	Nayana H .B	✓	✓	✓	✓	✓	✓
5	Poojitha ND	✓	✓	✓	✓	✓	✓
6	ASHWINI .A.V	✓	✓	✓	✓	✓	✓
7	Husali Kishore .C	✓	✓	✓	✓	✓	✓
8	Sumangala S.J	✓	✓	✓	✓	✓	✓
9	Mahavishnu	✓	✓	✓	✓	✓	✓
10	A.Dhamodaran	✓	✓	✓	✓	✓	✓
11	Divya .N .B	✓	✓	✓	✓	✓	✓
12	Harshitha . MR.	✓	✓	✓	✓	✓	✓
13	Shivraj .A	✓	✓	✓	✓	✓	✓
14	Ashwini .C	✓	✓	✓	✓	✓	✓
15	Tharshi K	✓	✓	✓	✓	✓	✓
16	Yousuf Madar	✓	✓	✓	✓	✓	✓
17	Ranya M.	✓	✓	✓	✓	✓	✓
18	Manaswi	✓	✓	✓	✓	✓	✓
19	Nandini .	✓	✓	✓	✓	✓	✓
20							

Principal

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

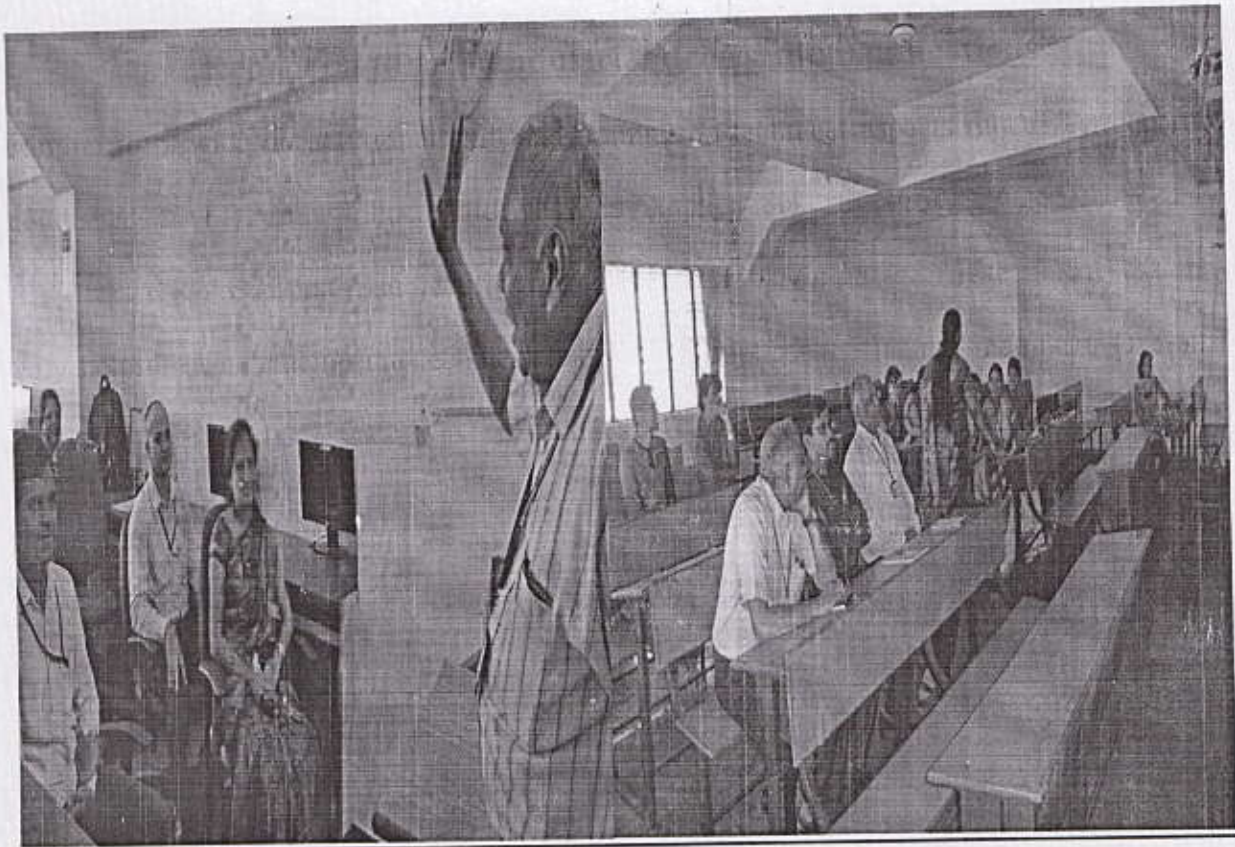



**Sapthagiri College of Engineering**  
14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057  
**Department of Electrical and Electronics and Engineering**  
**FACULTY DEVELOPMENT PROGRAMME COMMITTEE**

**AY 2018-19(ODD)**

**Report on FDP on "Industrial drives and Applications"**

Aiming to provide an additional skill and training on technical aspects of Drives, department conducted an FDP on "Industrial drives and Applications" by Prof S.N REKHA & Prof. R.RUKMANGADA, on the subject from 16<sup>th</sup> July 2018 to 20<sup>th</sup> July 2018. 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 MOTORS, DRIVES and its applications.



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





# Sapthagiri College of Engineering

Bangalore-560057

## Certificate

This is to Certify that Mr./Ms. ASHWINI . C.  
of ELECTRICAL & ELECTRONICS DEPT has participated  
and successfully completed -3- days Certification Course on  
"INDUSTRIAL DRIVES & APPLICATIONS" from  
16<sup>th</sup> July 2018 to 20<sup>th</sup> July 2018. organized by the Department of  
Electrical & Electronics Engineering, Sapthagiri College of Engineering.

  
Dr. K N Ravi

HOD, Dept. of TEE

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





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Phone: 080-28372800/12

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

Fax: 080-28372797

### CIRCULAR

All the teaching Faculties are here by informed to attend five days Faculty Development Program on Internet of Things for our faculties from 16<sup>th</sup> July 2018 to 20<sup>th</sup> July 2018.

*H.R. Ramy*

HOD  
Dept of ISE

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



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28372797

Fax: 080-

### Schedule for workshop "Internet of Things"

Date: 16/07/2018

#### DAY 1

Time	Topics
2:30-	Introduction to IOT
4:00 pm	

17/07/2018

#### DAY 2

Time	Topics
08:30-	Smart Objects
10:15 am	
	Tea Break
10:30-	
12:30 am	Protocols of IOT
	Lunch Braek
2.00-	
03:00pm	IOT transport layet
03:15 -	
04:00	IP as a network layer
pm	

#### DAY 3

Date: 18/07/2018

Time	Topics
08:30 -	IOT and data analytics
10:15 am	
	Tea Break
10:30 -	IOT and physical devices
12:30	
pm	
	Lunch Break
01:30-	Applications of IOT
03:00pm	
	Tea Break
03:15-	Examples

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04:15 pm	
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#### DAY 4


Date: 19/07/2018

Time	Topics
08:30-10:15 am	Protocols
Tea Break	
10:30 - 12:30 pm	Various device used
Lunch Break	
01:30 - 03:00 pm	Simulator usage.
Tea Break	
03:15-04:15 pm	Examples

#### DAY 5

Date: 20/07/2018

Time	Topics
08:30 - 10:15am	Usage in wireless networks
Tea Break	
10:30 - 12:30 pm	Examples
Lunch Break	
01:30 - 03:00 pm	Applications .
Tea Break	
03:15 - 04:15 pm	Valedictory function

  
Coordinator

  
Principal  
Sapthagiri College of Engineering  
14/5, Chikkasandra, Hosuraghatta Main Road  
Bengaluru - 560 357





**Five Days FDP on  
On**

**"Internet of Things"**  
FROM 16<sup>th</sup> July 2018 to 20<sup>th</sup> July 2018

**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

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, 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. 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:**

- To enhance the skills of faculties in the field of Internet.
- To understand salient features of various protocols and emerging standards;

#### **Resource Persons:**

**Prof Ambika S,**  
**Asistant Professor.**  
**Department of Information science and  
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)

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



## Report on Internet of Things

No of participants=17

Aiming to provide an Faculty Development Program on Internet Of Things for the faculties of Department of Information Science Engineering, Sapthagiri College of Engineering held during 16<sup>th</sup> July 2018 to 20<sup>th</sup> July 2018. The resource person for this FDP is Prof Ambika, Department of ISE Sapthagiri College of Engineering Bangalore. Overall the faculties felt that the session was informative & gained knowledge about IOT and its applications. Internal with good practical knowledge explained in detail about interrelated computing devices mechanical and digital machines are provided with unique identifier and ability to transfer data over the network without requiring human to human or human to computer interaction.



FDP on IOT by Prof Ambika S

  
Coordinator

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



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Phone: 080-28372800/1/2

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Fax: 080-2837279

Department of Information Science and Engineering

## FDP on "Internet Of Things" Attendance

Sl No	Faculty Name	16.7.18		18.7.18		19.7.18	
		MS	AS	MS	AS	MS	AS
1	Prof. Prerana Chaithra						
2	Prof. Sudarsanan D						
3	Prof. Ravichandra M						
4	Prof. Gayathri R						
5	Prof. Devaraja S						
6	Prof. Sanjay Kumar J H						
7	Prof. Ramya R						
8	Prof. Sheetal Raj						
9	Prof. Veena V						
10	Prof. Divyashree G						
11	Prof. Sowmya Somanath						
12	Prof. Kavyashree						
13	Prof. Praneetha G.N						
14	Prof. Meghana N M						
15	Prof. Ambika S						
16	Prof. Vineetha B						
17	Prof. Chaithra B M						

H. R. Rang  
HOD

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



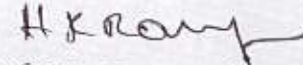


# Sapthagiri College of Engineering

Bangalore-560057

## Certificate

This is to Certify that Mr./Ms. RAVICHANDRAM  
of Information Science and Engineering has participated  
and successfully completed Five days Faculty Development Program on  
"Internet Of Things" from 16<sup>th</sup> July, 2018 to 20<sup>th</sup> July, 2018  
organized by the Department of Information Science & Engineering,  
Sapthagiri College of Engineering.

  
HOD, Dept of ISE

  
Principal  
Sapthagiri College of Engineering  
14/5, Chikkasandra, Hosaraghatta Main Road  
Bangalore - 560 057

  
Principal





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

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

Date: 13/07/2018

**CIRCULAR**

Mechanical Engineering faculty are hereby informing that there will be a faculty development programme entitled "**Kinematics and Dynamics of Machineries**" for five days on 16<sup>th</sup> July 2018 to 20<sup>th</sup> July 2018. The interested candidates enroll your names with **Mr. Chethan B. P.**

HOD

Department of Mechanical Engineering

M.O.D. Dept. of Mech. Engrg  
S.C.E., Bangalore-560 057

Principal

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



Date: 13/07/2018

### Minutes of Meeting

A meeting was conducted on 13<sup>th</sup> July 2018 in Mechanical HOD office to discuss and finalize the following about the five days faculty development programme for mechanical engineering department. The following points have discussed in the meeting

- FDP program for Mechanical faculty on 16<sup>th</sup> July 2018 to 20<sup>th</sup> July 2018.
- Programme Convener- **Mr. Chethan B. P.**
- Certificate program entitled as **Kinematics and Dynamics of Machinery.**
- Course duration and Date

### Course Content

Date	Morning Session	Afternoon Session
16/07/2018	Registration & Inauguration function	Introduction to mechanisms and machines
17/07/2018	Analysis of velocity and Acceleration	Applications of Gear Trains
18/07/2018	Force analysis	Balancing of Masses
19/07/2018	Governors and Gyroscope	Free and Forced Vibrations
20/07/2018	Vibration measuring Instruments	Valedictory Function

Dr. Tulsidas D	
Mr. Chethan B P	
Mr. Pramod S V	
Mr. Basavaraj Ganiger	
Mr. Mahesha S	
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,  
Bengaluru- 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 Trust, Sapthagiri Group of Institutions

### Patron

#### Dr. Shivabasappa K L

Principal, SCE, Bengaluru

### Convener

#### Dr. I. Mahadevaswamy

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

#### Mr. Chethan B P

Asst. Professor, SCE, Bengaluru

### FDP Coordinator

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

## Faculty Development Programme

On

## Kinematics and Dynamics of Machineries

On

23<sup>rd</sup> - 27<sup>th</sup> July 2018

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.

### Topic to be covered

Static and Dynamic analysis of mechanism, Balancing of reciprocating and Rotating masses, Gyroscope, Free and Forced vibrations,

### Resource Persons:

#### Prof. Basavaraju S

Assistant Professor,  
Department of Mechanical Engineering  
Acharya Institute of Technology Bangalore

#### Prof. R G Deshpande

Assistant Professor  
Department of Mechanical Engineering  
B M S Institute of Technology Bangalore



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

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

**FDP ON**  
**Kinematics and Dynamics of Machineries**

**Faculty Attendance**

Sl. No.	Name	16-07-2018		17-07-2018		18-07-2018		19-07-2018		20-07-2018	
		MS	AN	MS	AN	MS	AN	MS	AN	MS	AN
1	Dy. Mahadeva Saccmy	1	2	3	4	5	6	7	8	9	10
2	T. Venkate gowda	1	2	3	4	4	5	6	7	8	9
3	Dr. Tulsidas	1	2	3	4	5	6	7	8	9	10
4	Ramesh N.G	1	2	3	4	5	6	7	8	9	10
5	Mahesh .AM	1	2	3	4	5	6	7	8	9	10
6	Pramod SV	1	2	3	4	5	6	7	8	9	10
7	Tilak S	1	2	3	4	4	5	6	7	8	9
8	Chetan B.P	1	2	3	4	5	6	7	8	9	10
9	Ramkumar .M	1	2	3	4	5	6	7	8	9	10
10	P.R. Rao	1	2	3	4	5	6	7	8	9	10
11	Padmanabha.G	1	2	3	4	5	6	7	8	9	10
12	Arun kumar .R	1	2	3	4	5	6	7	8	9	10
13	Basavaraj Ganiger	1	2	3	4	4	5	6	7	8	9
14	Nataraj	1	2	3	4	5	6	7	8	9	10
15	Mahesh S	1	2	3	4	5	6	7	8	9	10
16	Madhukumar Y.S	1	2	3	4	5	6	7	8	9	10
17	Siva Murali Mohan Reddy	1	2	3	4	5	6	7	8	9	10
18	Rajalakshmi .S	1	2	3	4	4	5	6	7	8	9
19	Prathima CN	1	2	3	4	5	6	7	8	9	10
20	Hemant kumar #R	1	2	3	4	5	6	7	8	9	10

Signature of Convener



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



## REPORT

### FDP on Kinematics and Dynamics of Machineries

Department of mechanical Engineering organized FDP on Kinematics and Dynamics of Machineries.

#### Speakers

Prof. R G Deshapande, Associate Professor, Department of Mechanical Engineering, Acharya Institute of Technology Bangalore

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

**Duration of the course:** July 16<sup>th</sup> 2018 to July 20<sup>th</sup> 2018

Date	Morning Session 9.30 a.m. to 12.30 p.m.	Afternoon Session 2.00 p.m. to 5.00 p.m.
16/07/2018	Registration & Inauguration function	Introduction to mechanisms and machines
17/07/2018	Analysis of velocity and Acceleration	Applications of Gear Trains
18/07/2018	Force analysis	Balancing of Masses
19/07/2018	Governors and Gyroscope	Free and Forced Vibrations
20/07/2018	Vibration measuring Instruments	Valedictory Function



The FDP aimed to provide an intense discussion on Kinematics and Dynamics of Machineries, The faculty members felt that the session was informative & gained knowledge about Composite Materials processing and its Applications.

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

  
Signature of the Convener




# Sapthagiri College of Engineering


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## Certificate

*This is to Certify that Mr./Mrs. T. VENKATE GOWDA of has participated and successfully completed Five days Workshop on "Kinematics and Dynamics of Machlnaries" from 16<sup>th</sup> July to 20<sup>th</sup> July 2018 organized by the Mechanical Engineering Department Sapthagiri College of Engineering Bangalore.*

  
HOD,  
Dept. of ME

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

  
Principal





**DEPARTMENT OF PHYSICS**  
**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: 03/07/2018

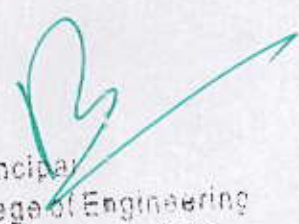
**CIRCULAR**

The faculty are hereby informing that there will be a faculty development programme entitled "**Recent Trends in Functional Materials**" for three days on 12<sup>th</sup> July 2018 to 14<sup>th</sup> July 2018. The interested candidates enroll your names with Mr. **Devaraja.C**



HOD

**Department of Physics**  
**Dr. Jagadeesha Gowda.G.V**  
Msc, BEd, MPhil, PhD  
Professor & Head  
Department of Physics  
Sapthagiri College of Engineering  
Bengaluru-560 057.



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Chikkasandra, Hesaraghatta Road,  
Bengaluru- 560 057



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



### PROGRAMME SCHEDULE

A meeting was conducted on 4<sup>th</sup> July 2018 in Physics HOD office to discuss and finalize the following about the three days faculty development programme. The following points have discussed in the meeting


- FDP program on 12<sup>th</sup> July 2018 to 14<sup>th</sup> July 2018.
- Programme Convener- Mr. Devaraja C
- Certificate program entitled as Recent Trends in Functional Materials.

### Course Content

Date	Morning Session 9.30 a.m. to 12.30 p.m.	Afternoon Session 2.00 p.m. to 5.00 p.m.
12/07/2018	Registration & Inauguration function	Introduction to Semiconductors
13/07/2018	Semiconductors for Photo catalysts	Photo Voltaic materials
14/07/2018	Electro chromic Materials	Valedictory function

### Faculty members Present

Mr. Gnanendra D S	
Mr. Devaraja C	
Mr. Namratha V	
Mr. Keshave Murthy K	
Mr. Shashikala B S	

  
Principal  
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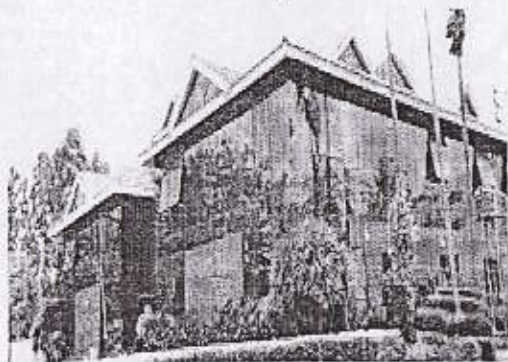




on  
Recent Trends in Functional Materials

12<sup>th</sup> July 2018 to 14<sup>th</sup> July 2018

Organized by  
Department of  
Physics



**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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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 FDP:

Functional materials deal with the development of materials that possess native properties and functions, such as Ferro electricity, piezoelectricity, magnetism and energy storage. Functional materials are found across all classes of materials including ceramics, metals, polymers and organic molecules; they are typically used in electromagnetic applications and in materials for energy applications such as electro and magneto caloric materials for energy storage or solar harvesting functions.

### About the Faculty Development Programme:

Its objectives are

- To enhance the Professional skill in the field of nano high energy
- the faculty to involve in research.

### Contents of FDP

- Introduction to Semiconductors
- Semiconductors for Photo catalysts
- Photo Voltaic materials.
- Electro chromic Materials.
- Electronic and Photonic Materials.
- Electrochromic Materials.

### Resource Persons:

**Mr. KeshavaMurthy K**  
Assistant Professor,  
Department of Physics  
Sapthagiri College of Engineering Bangalore

**Prof. Devaraju C**  
Assistant Professor,  
Department of Physics  
Sapthagiri College of Engineering Bangalore

Principal

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



# DEPARTMENT OF PHYSICS SAPTHAGIRI COLLEGE OF ENGINEERING

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

## FDP ON

### Recent Trends in Functional Materials

#### Attendance

Sl. No.	Name	12-07-2018		13-07-2018		14-07-2018	
		MS	AN	MS	AN	MS	AN
1	Dr. Rajaramakrishna	P	P	P	P	P	P
2	Sesharamanthy. K.	P	P	P	P	P	P
3	Tajanna. G.	P	P	P	P	P	P
4	Devaraja. C.	P	P	P	P	P	P
5	Shival Kumar B	Sh	Sh	Sh	Sh	Sh	Sh
6	Harish G.	H	H	H	H	H	H
7	Shashikala B.S.	P	P	P	P	P	P
8	Hemalatha. D.	P	P	P	P	P	P
9	Dshor Sathpalthy	P	P	P	P	P	P
10	Gnanendra D.S.	P	P	P	P	P	P
11	Rangaswamy. AR	P	P	P	P	P	P
12	Arun Kumar	P	P	P	P	P	P
13	Namrata. V	P	P	P	P	P	P
14	Dr. Jagadeeshagowda S.	P	P	P	P	P	P
15	Arun Kumar	P	P	P	P	P	P

Signature of Convener

Dr. Jagadeesha Gowda. G.V.  
Msc, BEd, MPhil, PhD

Professor & Head  
Department of Physics

Sapthagiri College of Engineering  
Bengaluru-560 057

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

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





**DEPARTMENT OF PHYSICS**  
**SAPTHAGIRI COLLEGE OF ENGINEERING**

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

**REPORT**

**FDP on Recent Trends in Functional Materials**

Department of Physics organized FDP on Recent Trends in Functional Materials.

**Speakers**


Prof. KeshavaMurthy, K Assistant Professor, Department of Physics, Sapthagiri College of Engineering  
Bangalore

Prof. Devaraja C, Ass.stant Professor, Department of Physics, Sapthagiri College of Engineering  
Bangalore

**Duration of the course:** July 12<sup>th</sup> 2018 to July 14<sup>th</sup> 2018

Date	Morning Session 9.30 a.m. to 12.30 p.m.	Afternoon Session 2.00 p.m. to 5.00 p.m.
12/07/2018	Registration & Inauguration function	Introduction to Semiconductors
12/07/2018	Semiconductors for Photo catalysts	Photo Voltaic materials
12/07/2018	Electro chromic Materials	Valedictory function

The FDP was aimed to provide an intense discussion on Functional Materials and its Applications. The faculty members felt that the session was informative & gained knowledge about functional Materials and their applications.

  
Signature of the Convener  
Dr. Jagadeesha Gowda.G.V  
Msc. BEd, MPhil, PhD  
Professor & Head  
Department of Physics  
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 VIT Vellore 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. Shashikala B.S. of has participated and successfully completed Three days FDP on Recent Trends in Functional Materials from 12<sup>th</sup> - 14<sup>th</sup> July 2018 organized by the Physics Department, Sapthagiri College of Engineering.***

  
**HOD**  
**Department of Physics**

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

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


  
**Principal**





Date: 25/06/2018


**Meeting Circular**

A meeting is scheduled on 26/06/2018 (Tuesday) at 1:30 PM in the Department of Biotechnology. This meeting will be regarding the conduction of FDP and to identify the coordinators for this event.

  
**HOD 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  
Chikkasandra, Hesaraghatta Road,  
Bangalore-560 057



Date: 11-7-2018



**Circular**

Faculty of Department of Biotechnology and Department of Basic science are here by informed to attend three days faculty development program titled as **"Medicinal plant tissue culture for production and Formulation of drugs"** from **12-7-2018 to 14-7-2018**. All the Faculty register their names with Faculty Coordinator **Prof Shobha G, Dept of Biotechnology**.



**HOD, BT**  
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



**DEPARTMENT OF BIOTECHNOLOGY AND DEPARTMENT OF BASIC SCIENCE**

Jointly organized Three day Faculty Development Program  
On

**MEDICINAL PLANT TISSUE CULTURE**

**FOR**

**PRODUCTION AND FORMULATION OF DRUGS**

12-7-2018 to 14-7-2018

Thursday to Saturday


**SCHEDULE**

Time	09:30AM To 10:30AM	11:00AM To 12:00PM	12:00PM To 1:00PM	2:00 PM To 3:00PM	3:00 PM To 4:30PM
Day-1 12-7-2018 Thursday	Registration and Inauguration	Herbal Antidotes against Venomous Snakes of India <b>Dr Suini More</b> Dean, Dayanda Sagar University		Lab Session Extraction of protein by Affinity Chromatography	
Day-2 13-7-2019 Friday	Industrial Visit – Chlrobios				
Day-3 14-7-2018 Saturday	Ayurvedic Medicinal Plants in Tissue Culture Engineering <b>Mr Rohith Raj Y</b> Managing Director, Chlrobios		Pharmacovigilance of Herbal Formulation <b>Mr. Sachin Bhatt</b> Head, Sapthagiri Clintrac		Valedictory Function

10:30 AM-11:00 AM and 3:00 PM to 3:30 PM-Tea Break

1:00PM to 2:00PM Lunch Break

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

  
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**

**on**  
*Medicinal Plant Tissue*  
*Culture For Production*  
*And Formulation Of*  
*Drugs*

**12<sup>th</sup> -14<sup>th</sup> July 2018**  
Thursday to Saturday

**Participant Details**

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

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

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

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

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

Area of Interest : \_\_\_\_\_

Signature of the Participant

**PATORNS**

*Sri. G Dayanand*  
*Chairman, SEE*

*Sri. G D Manoj*  
*Executive Director, SEE*

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

**ORGANISERS**

**Dr. Rohit K C**  
HOD, BT

**Dr B S Krishna**  
HOD, Chemistry

**Dr. Jagadeesh Gowda**  
HOD, Physcis

*Co-ordinator*  
**Prof. Shobha G**  
*AP, Dept of BT*  
*Principal*

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Bengaluru - 560 057



**SAPTHAGIRI COLLEGE OF ENGINEERING**  
Affiliated to VTU, Belagavi, Approved by AICTE, New Delhi

**Three Day**  
**Faculty Development Programme**  
**on**

*Medicinal Plant Tissue*  
*Culture*  
*For*  
*Production And*  
*Formulation Of Drugs*

**ORGANIZED**

**By**  
**Department of Bio-**  
**Technology**  
**&**  
**Department of Basic**  
**Sciences**



**ATTENDANCE LIST**

Event Name: Medicinal plant tissue culture for production and Formulation of drugs  
Date: 12-7-2018 to 14-07-2018

Sl. No	Faculty Name	DAY-1		DAY-2		DAY-3	
		MS	AS	MS	AS	MS	AS
1	Dr. Rohith K.C.						
2	Kavya MV						
3	Soumya C						
4	Shobha G						
5	Blenny Baby Mother						
6	Arjun H-V						
7	Prashanth Kumar HP						































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Bangalore-560 057


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

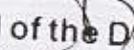


**ATTENDANCE LIST**

**Event Name: Medicinal plant tissue culture for production and Formulation of drugs**  
**Date: 12-7-2018 to 14-07-2018**

Sl. No	Faculty Name	DAY-1		DAY-2		DAY-3	
		MS	AS	MS	AS	MS	AS
1	Dr. Gurushantha K.						
2	Dr. Roopa, K.P.						
3	Anusree A. S. M						
4	Ravikantha N						
5	Krishne Gowda YH						

  
**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-560 057



## **Report of FDP Programme**

### **Medicinal plant tissue culture for production and Formulation of drugs**

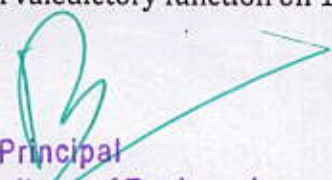
The objective of the FDP program was to provide the insight on medicinal plants of India that is used in formulation of drug and its delivery. The eminent speakers from different institutions and Plant tissue culture industry who had worked in this domain shared their knowledge & information through lectures, hands on experience and panel discussion.

The Speaker, Dr. Sunil More, Professor and Dean, School of Basic Science and Applied Sciences Dayananda Sagar University delivered the lecture on **"Herbal Antidotes against Venomous Snakes of India"**. The speaker mentioned the different herbal plants that are used as a antidotes and also highlighted on the role of secondary metabolites and the proteins as antidotes. He also explained how the protein from the plants can be extracted and used for the studies. In the lab session, Dr. Sunil demonstrated the use of affinity chromatography for the purification of protein from plants.

Mr. Rohith Raj Y, BE (BT), M.Sc (UK), Managing Director, Chlorbios, Jarakabande Kaval, Yelahanka Hobli, Bangalore, delivered a lecture on **"Ayurvedic Medicinal Plants in Tissue Culture and Engineering"**. The speaker highlighted on the use of herbal medicine since ancient times, hence their protection, preservation, maintenance and conservation is important for sustainable utilization, in this direction. Plant cell tissue and organ culture system holds tremendous potential for the production of high quality plant based medicine *in vitro* as he highlighted. Industrial visit was carried out to CHLORBIOS PVT LTD, they showed the production of Banana culture, secondary metabolites in large scale through tissue culture & engineering. They also demonstrated the stages that will be carried out for the production process. Also, they shared the process of Aquaponics technique.

Mr. Sachin Bhatt from Sapthagiri Clintrac, Bengaluru delivered a lecture on **"Pharmacovigilance of herbal formulations"** in which he discussed with the participants about the Pharmacokinetics and Pharmacodynamics issues of formulated drugs.

Faculty development program, which was organized by Department of Biotechnology and Department of Basic Science for 3 days came to an end with valedictory function on 14-07-2018



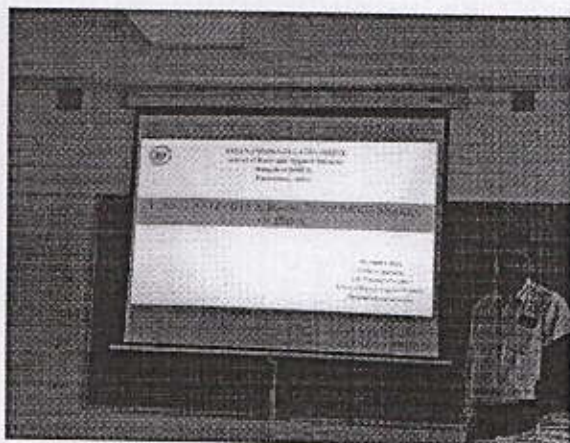
Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore- 560 057



## Report of FDP Programme

### Medicinal plant tissue culture for production and Formulation of drugs

#### Glimpse of FDP Programme



**Dr Suini More - Delivering Lecture on Herbal Antidotes against Venomous Snakes of India**  
Professor and Dean

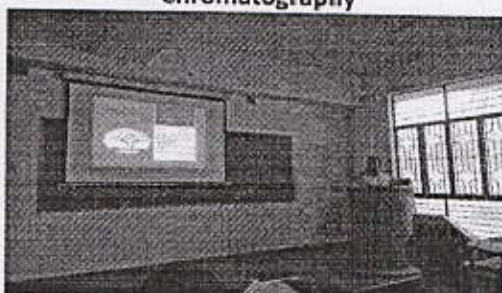
School of Basic Science and Applied Sciences  
Dayananda Sagar University



**Lab Session – Extraction of protein by Affinity Chromatography**



**Group Photo With the Speaker**



**Mr Rohith Raj Y, M,Sc (UK), Managing Director, Chlorbios, Jarakabande Kaval, Yelahanka Hobli, Bangalore – Delivering a Lecture on Ayurvedic Medicinal Plants in Tissue Culture Engineering**

Signature of the FDP Co-Ordinator

Signature of the HOD  
Head of the 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 Program

on

*"Medicinal Plant Tissue Culture for Production and Formulation of Drugs"*

## CERTIFICATE OF PARTICIPATION

This is to certify that <sup>✓</sup>Dr/Mr/Ms/Mrs. Roopa K.P  
of Sapthagiri College of Engineering has successfully participated in the **Three days Faculty**  
**Development Program** held at Sapthagiri College of Engineering, Bengaluru, on **12<sup>th</sup> to 14<sup>th</sup> July 2018.**

*Shobha*  
COORDINATOR

*[Signature]*  
CONVENER

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

*[Signature]*  
PRINCIPAL