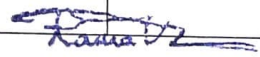




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 Phone: 080-28372800/1/ 2      www.sapthagiri.edu.in      Fax: 080-28372797

**6.3.3. Number of professional development /administrative training programs organized by the institution for teaching and non-teaching staff during the AY 2021-22**

Dates (from-to) (DD- MM- YYYY)	Title of the professional development program organized for teaching staff	Title of the administrative training program organised for non-teaching staff	No. of participants
27-09-2021 to 01-10-2021 (BT)	Recent Advanced Technologies for the Development of Biosensors and Their Applications	-	90
04-10-2021 to 09-10-2021 (CSE)	FDP on Recent Trends on Computer Science and Information	-	72
25-10-2021 to 29-10-2021 (Chemistry)	Recent Advanced Technologies for the Development of Biosensors and Their Applications	-	63
21-02-2022 to 25-02-2022 (EEE)	Developments in Electrical Engineering	-	80
21-03-2022 to 25-03-2022 (ISE)	-	Advanced Programming Skills	60
07-04-2022 to 09-04-2022 (ME& IQAC)	Innovative Teaching Techniques to improve Quality of Teaching Learning	-	143
24-06-2022 to 26-06-2022	Global Convergence in Technology, Entrepreneurship, Computing & Value Engineering: Principles and Practices		200

  
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# 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

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**Five days online Faculty Development Program (FDP) On  
Recent advanced technologies for the development of biosensors and their applications**

Organized by

**Department of Biotechnology  
From 27/09/2021 to 1/10/2021**



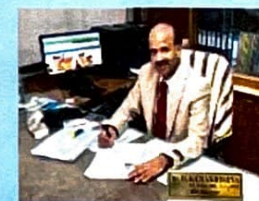
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**Shri G. Dayanand  
Chairman, SCE.**



**Patron**

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



**Chairperson**

**Prof. Dr. Ramakrishna H  
Principal, SCE, Bangalore.**

**Inaugurated by**

**Dr. Rajmohan B. PhD (IITK),  
Chief Warden and Professor in Department of Chemical Engineering  
National Institute of Technology  
Surathkal, Karnataka**



**Inauguration Time : 9.30 am to 10 am on 27/10/2021:**

**Google meet link: <https://meet.google.com/yfr-hwph-uhd>**

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Bengaluru - 560 057



## Resource Persons



**Dr. Rajmohan B. PhD (IITK),**  
Chief Warden and Professor of Chemical Engineering, NITK,  
Surathkal

Topic: Biosensors for environmental pollution detection

Date: 27/09/2021, Time: 10 am to 11.30 am

Google meet Link:



**Dr. P. E. Jagadeesh Babu. PhD (A.C Tech, Anna University),**  
HOD & Professor of Chemical Engineering, NITK, Surathkal.

Topic: Biosensor principles and it's application

Date: 28/09/2021, Time: 10 am to 11.30 am

Google meet Link:



**Dr. Simranjeet Singh, Post doc fellow, Interdisciplinary**  
centre for water research (ICWaR), Indian Institute of  
Science, Bangalore.

Topic: A diagnostic tool for quality monitoring of  
wastewaters

Date: 29/09/2021, Time: 10 am to 11.30 am

Google meet Link:



**Dr. Indu Pandey Tiwari PhD (BHU),**  
Assistant Professor of Chemistry, Dayanand Sagar college of  
Engineering, Bangalore, Karnataka.

Topic: Smart bandages to monitor chronic wounds

Date: 30/09/2021, Time: 10 am to 11.30 am

Google meet Link:



**Dr. S. Bhuvaneswari. PhD (NITC),**  
Assistant Professor of Chemical Engineering, NITC, Calicut.

Topic: An electrochemical biosensor for detection of  
heavy metals from wastewater

Date: 01/10/2021, Time: 10 am to 11.30 am

Google meet Link:



**Dr. PrasannaKumar S Mural. PhD (IISc),**  
Assistant Professor of Chemical Engineering, NITC, Calicut.  
Topic: Smart self-powered wearable piezoelectric sensors  
for capturing human body kinematics: Principles  
and applications.

Date: 27/09/2021, Time: 2 pm to 3.30 pm.

Google meet Link:



**Dr. T. K. Jagannathan. PhD (IITM),**  
Assistant Professor of Chemical Engineering, NITK,  
Surathkal.

Topic: Fundamental and applications of Nanomaterials for  
the preparation of biosensors.

Date: 28/09/2021, Time: 2 pm to 3.30 pm.

Google meet Link:



**Dr. Alex Joseph. PhD (IISc),**  
Assistant Professor of Chemistry, Newman College,  
Thodupuzha, Kerala.

Topic: Functional nano-conducting polymers for  
electrochemical sensing. Date: 29/09/2021, Time: 2 pm to 3.30  
pm.

Google meet Link:



**Dr. J S S Allwin Ebinesar. PhD (IISc),**  
Associate Professor of Biotechnology, SCE, Bangalore.

Topic: sensing. Nanoparticles and microbes and its  
metabolites for the fabrication of sensors to detect the  
monovalent and divalent metal ions in aqueous solutions.

Date: 30/09/2021, Time: 2 pm to 3.30 pm.

Google meet Link:



**Dr. Srinivasa Budagumpi. PhD (KU),**  
Associate Professor and CNMS, Jain University, Bangalore.  
Topic: Carbene-based Organometallics as Molecular  
Electrocatalytic Sensors

Date: 01/10/2021, Time: Time: 2 pm to 3.30 pm.

Google meet Link:

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Bengaluru - 560 057





**Organising Secretary**

**Dr. Veena S. More**

**Professor & HOD,**

**Department of Biotechnology,  
SCE, Bangalore.**



**Program Convenor**

**Dr. J. S. S. Allwin Ebinesar. PhD (IISc)**

**Associate Professor**

**Department of Biotechnology  
SCE, Bangalore.**



**FDP Department Co-Ordinator**

**Dr. Shobha G, Assistant Professor**

**Department of Biotechnology  
SCE, Bangalore.**



**Co-ordinators**

**Dr. Chethana K R, Assistant Professor,**

**Prof. Ramya D L, Assistant Professor,**

**Department of Biotechnology  
SCE, Bangalore.**

- Valedictory program is on 01/10/2021 at 3.30 pm.
- Quiz link will be shared to the participant mail or whatsapp group on 01/10/2021 at 3.45 pm.
- Feedback form link will be shared everyday at the end of the sessions to confirm the attendance of participants.

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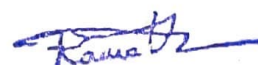


Type of event/activity	Faculty Development Program
Name/Title of the Activity/Event	<b>Recent Advanced Technologies for The Development Of Biosensors And Their Applications</b>
Date of Organization	07/07/2021
Venue (with address)	Department of Biotechnology (SCE)
Organized by	Department of Biotechnology Convener: Dr. Chethana K. R Faculty Co-ordinators: Dr. Shobha and Ms. Ramya D L Student Co-Ordinators: Varsha K and Santhosh Kumar G.
Objectives of the event/activity	<ul style="list-style-type: none"> <li>• Concept of Biosensors</li> <li>• Various ways of synthesis and application</li> </ul>
Participants (Please attach list of participants, if it is organized/conducted in the dept.)	<ul style="list-style-type: none"> <li>• 90 participants</li> </ul>
Mention organized /participated/attended	<ul style="list-style-type: none"> <li>• Organized</li> </ul>

**Event Description:**

The Department of Biotechnology, SCE organized the Faculty Development Program (FDP) programme on ““**RECENT ADVANCED TECHNOLOGIES FOR THE DEVELOPMENT OF BIOSENSORS AND THEIR APPLICATIONS**” for a period of 5 days from 27<sup>th</sup> September to 1<sup>st</sup> October 2021 by virtual mode.

As a faculty and researcher, it is mandatory for everyone to upgrade the skills & knowledge in their fields to know the advances in research. Apart from imparting knowledge & skills to the stakeholders,





engineering institutions have the responsibility of developing new & novel technologies useful for mankind. To bridge this gap, Department of BT, SCE conducted the FDP to make the participants aware on recent advances in biosensors and its application.

The objective of this Faculty Development Program was to introduce the participants to know the current & emerging research areas in the field of biosensor and give an insight into how and where it can be applied.

- The sessions were addressed by Professors from reputed Institutions. The FDP was attended by 40 plus participants - faculty members from different departments such as Biotechnology, Chemistry, Agricultural Science and research scholars from different states.

Invited speakers:

#### Session report (of different days):

##### Day 1: 27<sup>th</sup> Sep 2021 (Monday)

Dr. Rajmohan B. PhD (IITK), Chief warden & Professor of Chemical Engineering, NITK, Surathkal Bengaluru delivered inaugural address on **Biosensors for Environmental pollution** where he highlighted on the application of for the detection of environmental pollution. In the afternoon session Dr. PrasannaKumar S Mural. PhD (IISc), Assistant Professor of Chemical Engineering, NITC, Calicut, delivered lecture on **Smart self-powered wearadle piezoelectric sensors for capturing humanbody kinematics: Principle's and applications**

##### Day 2: 28<sup>th</sup> Sep 2021 (Tuesday)

Dr. P. E. Jagadeesh Babu. PhD (A C Tech, Anna University) HOD & Professor of Chemical Engineering, , NITK, Surathkal and Dr. T. K. Jagannathan. PhD (IITM), Associate Professor of Chemical Engineering, NITK, Surathkal address on the **Biosensor and Fundamentals and application of nanomaterial for the preparation of Biosensor.**

##### Day 3: 29<sup>th</sup> Sep 2021 (Wednesday)



Dr. Simranjeet Singh, Post doc fellow, Interdisciplinary centre for water research (ICWaR), Indian Institute of Science, Bangalore, discussed on **A diagnostic tool for quality monitoring of wastewater** and Dr. Alex Joseph. PhD (IISc), Assistant Professor of Chemistry, Newman College, Thodupuzha, Kerala discussed on **Functional nano-conducting polymers for electrochemical sensing**.

**Day 4: 29<sup>th</sup> Sep 2021 (Thursday)**

Dr. Indu Pandey Tiwary. PhD (IIT, BHU), Assistant Professor of Chemistry, Dayanand Sagar University, Bangalore, Karnataka *shared his views on his recent research on Smart bandages to monitor chronic wounds* and Dr. J S S Allwin Ebinesar. PhD (IISc), Associate Professor of Biotechnology, SCE, Bangalore on **Nanoparticles and microbes and its metabolites for the fabrication of sensors to detect the monovalent and divalent metal ions in aqueous solutions**

**Day 5: 01<sup>st</sup> Oct 2021 (Friday)**

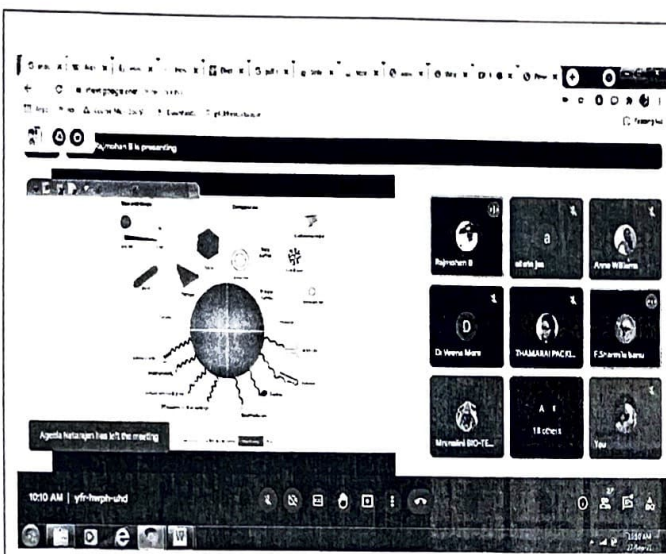
Dr. S. Bhuvaneshwari. PhD (NITC), Associate Professor of Chemical Engineering, NITC, Calicut and Dr. Srinivasa Budagumpi. PhD (KU), Group Leader and Associate Professor, Jain University Bangalore discussed on **An electrochemical biosensor for detection of heavy metals from wastewater and Carbene-based Organometallics as Molecular Electrocatalytic Sensors**

**Images:**

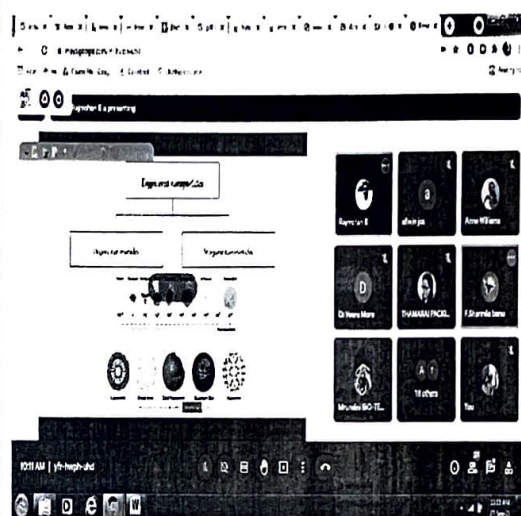


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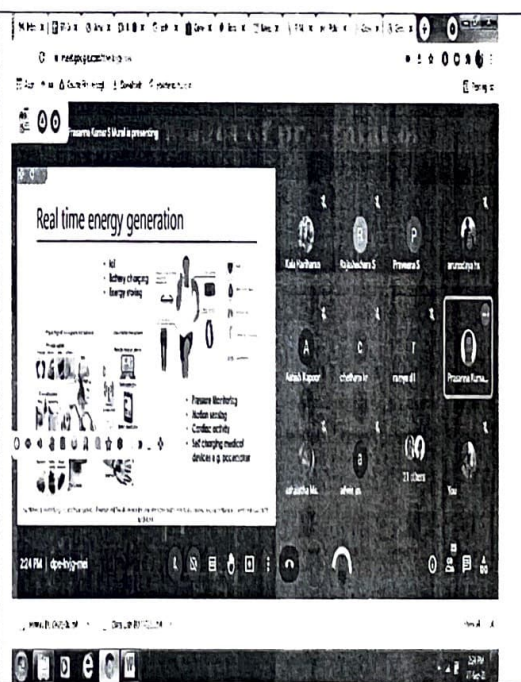
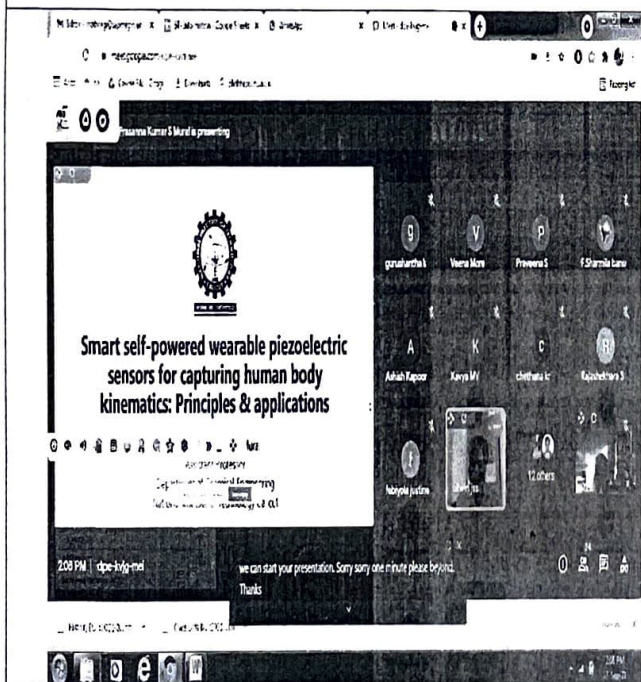




Images of presentation

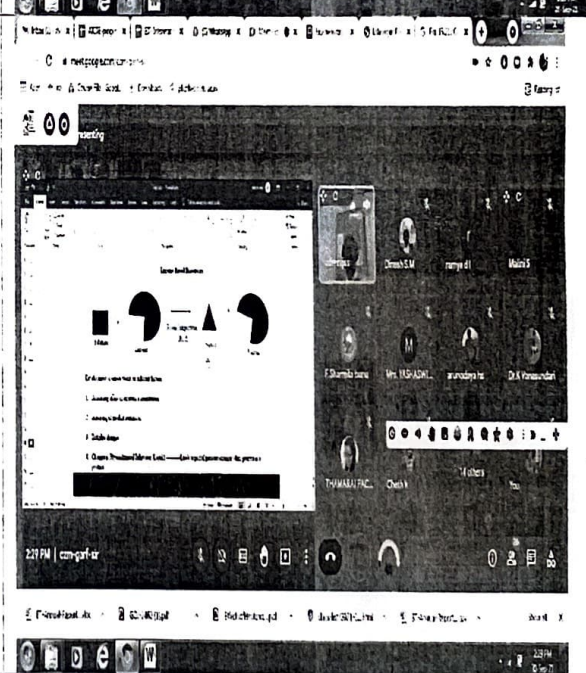
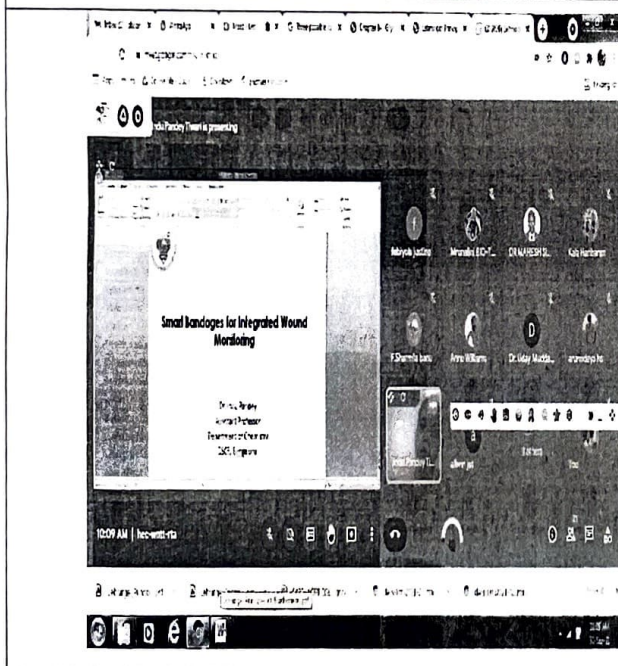
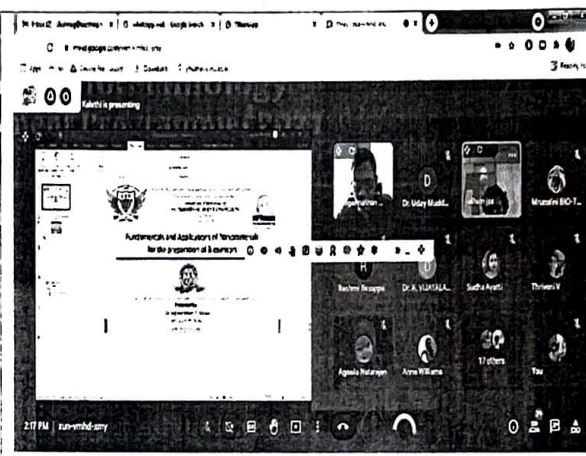
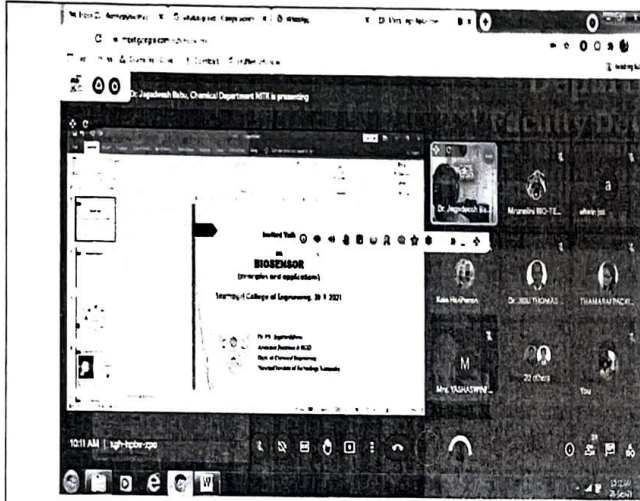


Images of presentation



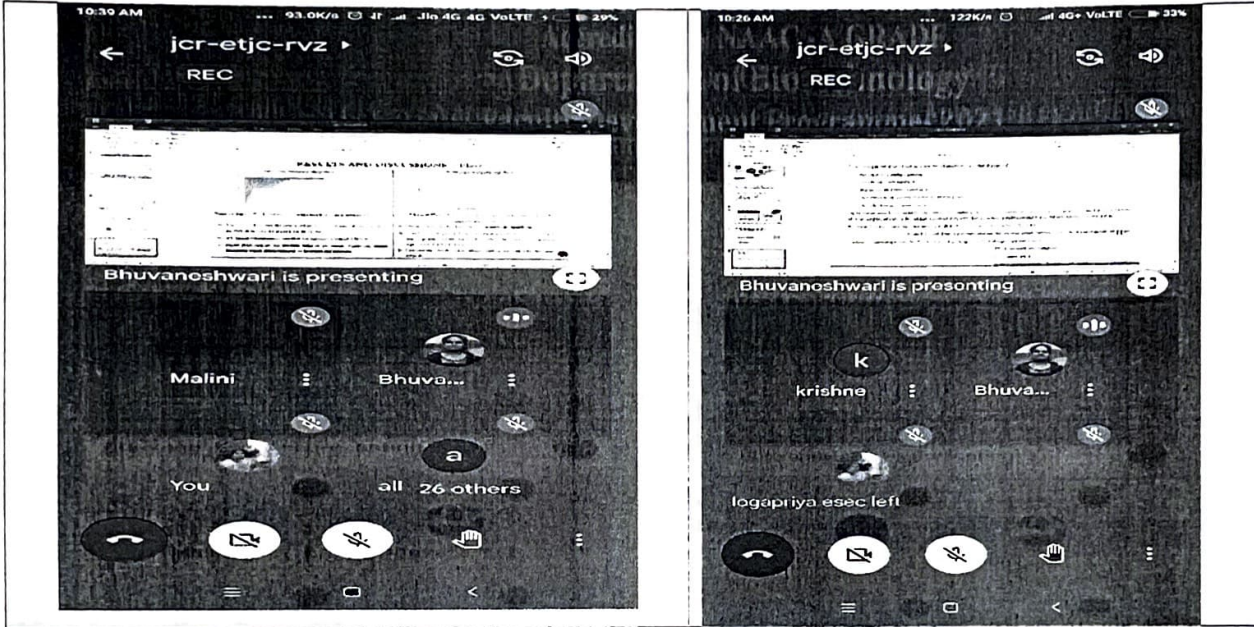
*Ramath*





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





Signature of Faculty Co ordinator:

FDP Convener: Dr. JSS Alwin Ebsiner

FDP Co-ordinators: Dr. Shobha C

Dr. Chethana K. S.

Prof. Ramya D.

Date of Submission: 10/7/2021

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

*Ramya D.*  
Principal

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



## About the FDP

Advanced trends in Computer Science and Information Technology have seen a huge growth in recent years. Keeping this in view, the FDP is organized to help the participants in their research work under the domain of Computer Science and IT, including M. Tech. Scholars.

## Objectives of FDP

➤ The objective of this FDP is to nurture the research aptitude and competency development of the young faculty members either doing research or planning to undertake research work under the domain of Computer Science and IT including M. Tech. Scholars

## Note

- The programme is open to faculty members/research scholars/PG students from colleges/universities and industry personnel working in the concerned/affiliated disciplines.
- Certificates will be provided to all the participants who will submit the feedback form at the end of the FDP and maintains 80% of attendance
- Sessions will be held online.



**Register Here** 

<https://forms.gle/Vnoe8up6AT7dV7>

**Registration**  
**FREE**

**Any queries?**

**Contact:**

Dr. Praveen Kumar K V-9844784013

Dr. Gururaj Murthugudde- 9611196625

Chaitra N C- 9749055480

**Chief Patron**

**Shri G. Dayanand, Chairman SCE**

**Patron**

**Manoj GD, Executive Director, SCE**

**Resource Persons:**

1. **Dr. Vishwanath R Hallipallad**  
Professor & Assoc. Director R&D BEVA University
2. **Dr. Megha P. Arakeri [Ph.D NITK]**  
Assoc. Professor, RIT, Bangalore
3. **Dr. Mamatha C M [Ph.D VTU]**  
Assoc. Professor & HOD- CIT, Bangalore
4. **Prof. Shruthi Ram**  
Member Faculty, e-Gov-Govt. Of Karnataka
5. **Mr. Vijay Kumar**  
Sr. Consultant, Imarticus- Bangalore

**Chair person**

**Dr. H Ramakrishna**

Principal, SCE, Bengaluru

**Convener**

**Dr. Kamalakshi Naganna**

Prof & Head, Dept. of CSE SCE, Bengaluru

**Coordinators**

**Dr. Praveen Kumar K V**

**Dr. Gururaj Murthugudde**

**Prof. Chaitra NC**



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**Department of Computer Science & Engineering****Academic Year: 2021-22**

*Type of event/activity	Faculty Development Program
Name/Title of the Activity/Event	FDP on "Recent Trends on Computer Science and Information Technology"
Date of Organization	04 <sup>th</sup> -09 <sup>th</sup> Oct. 2021
Venue (with address)	Virtual Platform Google Meet
Objectives of the event/activity	<ol style="list-style-type: none"><li>1. To enhance the knowledge of faculty on recent trends.</li><li>2. To enable the faculty to understand the recent technologies in CS and IT.</li></ol>
Participants (Please attach list of participants, if it is organized/conducted in the dept.)	72 Faculty Members from different engineering colleges
Mention organized /participated/attended	Dr.Praveen Kumar K.V., Dr. GururajMurtugudde Prof. Chaithra NC

**Event Description:**

The field of Computer Science and Information Technology is growing rapidly. Everyday new concepts and technologies are appearing with huge application for the mankind. It is necessary for the faculty of CSE and ISE departments to upgrade their knowledge and enhance their career with changing trend.

Keeping this point in the view, Department of Computer Science and Engineering decided to organize five days Faculty Development Program on "Recent Trends on Computer Science and Information Technology", in association with Imarticus Technologies Bengaluru. There were 63 faculty from the different engineering colleges were participated and resource persons were from Industry, Engineering colleges and well known universities.

There were two sessions in everyday with lecture session and other with hands on the same technology. The FDP went well with good feedback from both participants and resource persons.

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## Department of Computer Science & Engineering

Academic Year: 2021-22

### Images:



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## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### About the College

Sapthagiri College of Engineering is one of the prestigious Engineering colleges in Karnataka located in the Bangalore city. Established in 2001 by Srinivasa Education and Charitable Trust with a vision to transform its students into competent, inspired and responsible professionals.

Sapthagiri College of Engineering (SCE) affiliated to Visvesvaraya Technological University (VTU), Belagavi, approved by AICTE & UGC, New Delhi and recognized by Govt. of Karnataka. SCE is also accredited by NAAC with "A" grade. SCE has established a system of imparts a world class quality education through good infrastructure qualified faculty and good ambience. We occupy a place of prominence among the leading engineering college under VTU.

The management are ever willing to encourage and support activities by students and faculty to promote the cause of the quality education in Sapthagiri campus. Now, at this landmark of completing 20 years of glorious feat, the institution has created an environment and ambience that foster learning. It provides the students with opportunities to explore and grow through situations that challenges them to identify their strength and reinforce them.

In association with



**Imarticus, Bangalore**

**Presents**

**Five day Faculty  
Development Program on  
"Advanced Trends in Computer  
Science and Information  
Technology"**

**from**

**04th-09th of**

### About the Department

The Department of Computer Science and Engineering in Sapthagiri College of Engineering was established in the year 2001. The primary focus of the Department is to produce highly competent IT professionals, who can be readily acceptable by the industry. Department of CSE offers under graduate program leading to Bachelor of Engineering degree in Computer Science & Engineering (annual intake of 120 students), and research program leading to Doctor of Philosophy (Ph.D) degree.

It has actively pursued its mission of carrying out leading edge facilities in both foundational and industry oriented problems. The students get an opportunity to specialize in various fields like Artificial Intelligence, Networks, Data Mining, Machine Learning and Cloud Computing. It is well equipped with Laboratories and required facilities.



  
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## Department of Computer Science & Engineering

Academic Year: 2021-22

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Register Here

<https://forms.gle/Voe8sup647ZdvV7>

Registration  
**FREE**

### Any queries?

#### Contact:

Dr. Praveen Kumar K V-9844784013

Dr. Gururaj Murthugudde- 9611196823

Chaitra N C- 9749033450

### Chief Patron

Shri G. Devanand, Chairman, SCE

### Patron

Manoj G.D., Executive Director, SCE

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Professor & Assoc. Director R&D BEVA University
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Assoc. Professor, RIT, Bangalore
3. Dr. Mamatha C M [Ph.D VTU]  
Assoc. Professor & HOD- CIT, Bangalore
4. Prof. Shruthi Ram  
Member Faculty, e-Gov-Govt. Of Karnataka
5. Mr. Vijay Kumar  
Sr. Consultant, Imarticus- Bangalore

### Chair person

Dr. H Ramakrishna

Principal, SCE, Bengaluru

### Convener

Dr. Kamalakshi Nagamma

Prof & Head, Dept. of CSE SCE, Bengaluru

### Coordinators

Dr. Praveen Kumar K V

Dr. Gururaj Murthugudde

Prof. Chaitra NC

Sapthagiri College of Engineering



## BROUCHER

*Rama*

Principal

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## Department of Computer Science & Engineering

Academic Year: 2021-22

### CertificateImage

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

*In association with Imarticus, Bangalore*  
Certificate of Participation

**This is to Certify that**  
**Mr/Mrs/Ms/Dr.** \_\_\_\_\_ **of** \_\_\_\_\_  
**has Participated in online 5days Faculty**  
**Development Program(FDP) on "Advanced Trends in Computer Science and**  
**Information Technology" held on 04-09<sup>th</sup> of October 2021 jointly organised**  
**by Department of Computer Science and Engineering, Sapthagiri College**  
**of Engineering, Bengaluru.**

Dr. Kamalakshi Naganna  
Professor & HOD, Dept. of CSE

Dr. H Ramakrishna  
Principal, SCE

### CERTIFICATE

	A	B	C	D	E	F
1	Timestamp	NAME	Email ID	COLLEGE NAME/UNIVERSITY, PLACE	DESIGNATION	PHONE NUMBER
2	9/29/2021 10:56:12	VINDHYA	vindhyagb@sapthagiri.edu.in	SCE	AP	8861778989
3						
4	9/29/2021 11:08:25	RASHMI	rashmihc@sapthagiri.edu.in	SCE	AP	123456789
5	10/1/2021 10:44:12	Srikanth Parande	srikanthparande@sapthagiri.edu.in	Sapthagiri College of engineering	Lab instructor	84314 76596
6	10/1/2021 19:06:28	BHARANI B R	bharanisuri@gmail.com	Cambridge Institute of Technology	Assistant professor	7892378708
7						
8	10/1/2021 19:30:28	Suma	sumakavyapkv@gmail.com	ACIT	ASST.PROF	9844784015
9	10/1/2021 19:43:48	Shankar Rana	rana.sapthagiri@gmail.com	SCE	Assistant professor	9886550470
10	10/1/2021 20:43:51	Dr. Anjan Kumar K N	anjankn05@gmail.com	RNSIT	Associate Professor	988658236
11	10/3/2021 18:10:15	Dr. Kamalakshi Naganna	kamalakshinaganna@sapthagiri.edu.in	Sapthagiri College of Engineering	Professor and head	9880285725
12	10/3/2021 19:36:46	Deepashree HL	deepashree.shree91@gmail.com	PES University, RR campus	Assistant Professor	9980026916
13	10/3/2021 20:14:43	CHAITRA H.V	chaitra.0811@gmail.com	MN Degree College	Assistant Professor	09845050487
14	10/4/2021 7:22:20	Kalpana K	kalhar.lak@gmail.com	Presidency university	Assistant professor	8310956289
15	10/4/2021 8:42:37	Anitha Rao	anitharai@sapthagiri.edu.in	Sapthagiri College of Engineering, Bangal	Assistant Professor	9663937923
16	10/4/2021 8:45:45	Kavitha G	kavithag@sapthagiri.edu.in	Sapthagiri college of Engineering	Assistant professor	09164814686
17	10/4/2021 8:49:54	Nanda M B	nandamb@sapthagiri.edu.in	Sapthagiri College of Engineering	Assistant Professor	09886888121



Principal  
Sapthagiri College of Engineering  
14/5, Chikkaasandra, Hosuraghatta Main Road  
Bengaluru - 560 057



# SAPTHAGIRI COLLEGE OF ENGINEERING

(Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi)

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

An ISO 90001:2015 and 14001:2015 Certified Institution

Accredited by NAAC -A GRADE

**Five days Faculty Development Program (FDP) On  
Recent Advances in Chemical sciences and Intellectual Property Rights**

Organized by

**Department of Chemistry**

**From 25/10/2021 to 29/10/2021 (Virtual Mode)**



**Chief Patron**  
**Shri G Dayanand**  
**Chairman, SCE.**



**Patron**  
**Shri G D Manoj**  
**Executive Director, SCE.**



**Chairperson**  
**Dr. H Ramakrishna**  
**Principal, SCE, Bangalore.**

**Organizing Secretary**

**Dr. B S Krishna**

Professor & HOD,  
Department of Chemistry,  
SCE, Bangalore

**Program Convener**

**Dr. Roopa K P**

AP, Dept of Chemistry  
SCE, Bangalore



**FDP Department Coordinator**

**Dr. Gurushantha K**

AP, Dept of Chemistry  
SCE, Bangalore

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



## ABOUT SCE

Sapthagiri College of Engineering was established in the year 2001 by the Srinivasa Educational and Charitable Trust(R) to implement path breaking student centric education methods. Strengthen Industry- Institute interactions for knowledge sharing. SCE has the most advanced laboratories for practical training, state of the art computing facilities and spacious classrooms with good infrastructure. The Institution has collaborative & extension activities with various organizations for fostering Academic/Industries/ Research/ Innovation. The organization provides an ideal ambience to stimulate the teaching-learning process, leadership skills, helping in bringing out skillset to conduct research and development.

## ABOUT CHEMISTRY DEPARTMENT

The department was started in the year 2001 and it is recognised as a Research Centre in the year 2015 by Sree Sivasubramanian Technological University (VTU), Belagavi. The department has state of the art laboratories and it is working in many thrust areas of research & has produced publications in various National and International peer reviewed journals. Excellence in research and teaching has been the hallmark of departments ever since its inception.

## SCOPE OF THE PROGRAM

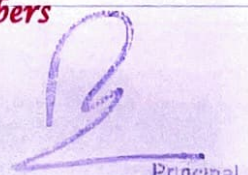
Chemical science emerged as a basic and latest tool for all kind of technical research, education and allied subjective collaborative work among various leading branches of the sciences. Advances in Chemical science leads to latest advancements in different areas of Chemical science. IP rights contribute to the enrichment of society by promoting the widest possible availability and the highest potential level of economic activity based on the production, circulation, and further development of new and useful goods, services, and technical information from innovative activity. The objective of FDP is to recapitulate and gain the knowledge in the field of Chemical sciences. This program is aimed to provide the theoretical knowledge and practical innovations using modern techniques in the field of Chemical sciences.

## COURSE CONTENT

Topics will provide an overview as well as some insight in the research being undertaken in Chemical sciences.

### Organizing Committee members

Prof. Ravikantha N  
Prof. Anusuya A M  
Prof. Krishne Gowda Y H  
Dept of Chemistry, SCE



Sapthagiri College of Engineering  
14/5, Chikkaasandra, Hosuraghatta Main Road  
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## RESOURCE PERSONS:

**Dr. M S Vijaya Kumar, Ph.D (Japan)**  
Ramanujan Faculty Fellow (SERB-DST)  
Vijnana Bhavan / Department of Chemistry,  
Manasagangotri,  
University of Mysuru.

Topic: Material Science in space

**Dr. K Mantelingu**  
Associate Professor  
Department of Studies in Chemistry,  
Manasagangotri,  
University of Mysuru.

Topic: Reagents, Nano catalysts in synthetic organic and medicinal chemistry

**Dr. T K Vishnuvardhan**  
Assistant Professor  
Department of Chemistry,  
Ramaiah University of Applied Sciences,  
Bengaluru.

Topic: Morphology and Applications of Nanocomposite Materials

**Dr. K S Lokesh**  
Professor of Chemistry  
Department of Studies in Chemistry, Vijayanagar  
Sri Krishnadevaraya University, Bellary.

Topic: Electrochemical applications of N4 Macrocycles

**Dr. M Rudresh**  
Assistant Professor  
Department of Aeronautical Engineering,  
Dayananda Sagar College of Engineering,  
Bengaluru.

Topic: Overview of Intellectual Property and Rights



### **ELIGIBILITY**

The program is open to faculties working in AICTE/UGC approved universities / engineering institutions / colleges.

### **Registration Link:\***

<https://forms.gle/nopAkxjo9JePZ4BH6>

**For more updates, please join the following  
WhatsApp group:**

<https://chat.whatsapp.com/Gpi3NbKjp3PCUOWuW5taRy>

*For More details Contact*

**Dr. Gurushatha K (9916314335)**

**Prof. Krishna Gowda Y H (9448919273)**

### **Google meet Link:**


<http://meet.google.com/urg-ofvz-xpd>

**PIN: 569 331 823#**

**Note: Registrants will use the same Google Meet link every day for each session.  
e-certificate will be issued for all the participants.**

**Last date for online registration: 23-10-2021**

- **Feedback form link will be shared on 29-10-2021.**

  
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**SAPTHAGIRI COLLEGE OF ENGINEERING**

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**Department of Chemistry**

Date: 10-10-2021

To

The Principal

SCE, Bangalore

Respected Sir,

Sub: Requisition to conduct Five days FDP program on "Recent advances in Chemical Sciences and Intellectual Property Rights"


With reference to the above subject, Department of Chemistry is planning to organize Faculty development Program on "Recent advances in Chemical Sciences and Intellectual Property Rights" from 25-10-2021 to 29-10-2021 through Virtual mode (Google meet). We request you to give permission and kindly consider this.

Thanking You,

Yours sincerely,

  
Dr. Roopa K P

(Program Convener)

  
13/10/21



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



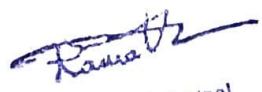
## DEPARTMENT OF CHEMISTRY

### Faculty Development Program on Recent Advances in Chemical Sciences & Intellectual Property Rights (Using Virtual mode)

### Program Schedule

Date	Speaker	Title of Topic	Timing
25-10-2021 Monday	Dr. M S Vijaya Kumar, Ph.D (Japan) Ramanujan Faculty Fellow (SERB-DST) Vignana Bhavan / Department of Chemistry, Manasa Gangothri, University of Mysore Karnataka, INDIA	Material Science in Space	10.00 am to 12.00 pm
26-10-2021 Tuesday	Dr. K. Mantelingu Associate Professor Department of Studies in Chemistry Manasa Gangothri, University of Mysore, Karnataka, INDIA	Reagents, Nano catalysts in synthetic organic and medicinal chemistry	10.00 am to 12.00 pm
27-10-2021 Wednesday	Dr. T K Vishnuvardhan Assistant Professor Department of Chemistry, Ramaiah University of Applied Sciences, Bengaluru.	Morphology and Applications of Nanocomposite Materials	10.00 am to 12.00 pm
28-10-2021 Thursday	Dr. K S Lokesh Professor of Chemistry Department of studies in Chemistry, Vijayanagara Sri Krishnadevaraya University, Bellary	Electrochemical applications of N4 macrocycles	10.00 am to 12.00 pm
29-10-2021 Friday	Dr. Rudresh M Assistant Professor Department of Aeronautical Engineering, Dayanand Sagar college of Engineering, Bengaluru	Overview of Intellectual Property & Rights.	10.00 am to 12.00 pm



  
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**Department of Chemistry**

**FDP Report**

**Recent Advances in Chemical Sciences and  
Intellectual Property Rights**

Faculty development Program on "Recent Advances in Chemical Sciences and Intellectual property Rights" was conducted from 25-10-2021 to 29-10-2021 for both In-house and Out house faculties through virtual mode (Google meet).

The invited renowned speakers from different universities and college for FDP program shared their knowledge to all the participants.

The event began with Dr. Roopa K P, Assistant professor by welcoming the participants, all speakers, HOD of Chemistry, Dr. B S Krishna, followed by welcoming Dr. H Ramakrishna, Principal, SCE, all the HOD's of SCE, Faculties from various institutions by Chemistry HOD and finally Inaugural speech from Principal, SCE.

The session was started by welcoming and introducing the Key note speaker "Dr. M S Vijaya Kumar" Ph.D (Japan) Ramanujan Faculty Fellow, Department of studies in Chemistry Manasagangotri, University of Mysuru, by Dr. Roopa K P.

**Day 1 (25-10-2021):**

Dr. Roopa K P, Assistant Professor, Dept of Chemistry introduced the speaker **Dr. M S Vijaya Kumar** (Ph.D) (Japan) Ramanujan Faculty Fellow, Department of studies in Chemistry Manasagangotri, University of Mysuru. He delivered a talk on "**Material Science in Space**". The session was useful in understanding about how the research is going on in space, what are the drawbacks, advantages and difficulties the scientists are facing during their research in space and how we can utilize those facilities.

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**Day 2 (26-10-2021):**

**Dr. K Motelingu**, Associate Professor, Department of Studies in Chemistry, Manasagangotri, University of Mysuru was speaker for the 2<sup>nd</sup> day. The speaker was introduced by **Dr. Roopa K P, AP**, Department of Chemistry, SCE. He gave a talk on **"Reagents, Nano catalysts in synthetic organic and medicinal chemistry"**. The session was useful about how to synthesize the organic compounds, applications of nano catalysts in different field.

**Day 3 (27-10-2021):**

**Dr. K S Lokesh**, Professor, Department of studies in Chemistry, Vijayanagara Sri Krishnadevaraya University, Bellary, was introduced by, **Dr. Roopa K P**, Assistant Professor, Dept of Chemistry. He delivered a lecture on **"Electrochemical applications of N4 Macrocycles"**. He explained about basic fundamentals of Electrochemistry, Insights into electrochemistry for sustainable development, corrosion related problems, batteries & Fuel cells.

**Day 4 (28-10-2021):**

**Dr. T K Vishnuvardhan**, Assistant Professor, Department of Chemistry, Ramaiah University of Applied Sciences, Bengaluru, delivered a talk on **"Morphology and Applications of Nanocomposite Materials"**. **Mrs. Anusuya A M**, Assistant Professor, Dept of Chemistry, introduced the speaker **Dr. T K Vishnuvardhan** to the participants. He explained about the synthesis and applications of Nanocomposite materials in various field.

**Day 5 (29-10-2021):**

**Mr. Ravikantha N**, Assistant Professor Dept of Chemistry, SCE introduced the speaker **Dr. M Rudresh**, Assistant Professor, Department of Aeronautical Engineering, Dayanand Sagar college of Engineering, Bengaluru. He delivered his lecture on **"Overview of Intellectual Property & Rights"**.

Finally, **Mr. Ravikantha N** gave the vote of thanks to Management, Principal, Participants, and all

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Fax: 080-28372797


teaching & nonteaching staff of SCE for the successful completion of the e-FDP.

More than 63 participants were registered and FDP was conducted through Google meet Platform.

E-certificates were issued to all the participants, after feedback submission.

All the sessions were co-ordinate by the Department FDP convener and organizing committee members.

  
FDP convener

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

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



**REGISTRATION FORM**  
**5 Days Faculty Development**  
**Programme**  
**on**  
**“Developments in Electrical**  
**Engineering”**  
**FROM**  
**21<sup>th</sup> Feb. 2022 to 25<sup>th</sup> Feb 2022**

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. Ramakrishna H,**  
Principal, SCE, Bengaluru

**Dr. Narayanappa**  
Hod., EEE, SCE, Bengaluru

**Program Coordinator**

**Prof. Rukmangada R**  
Senior Lecturer. EEE, SCE, Bengaluru

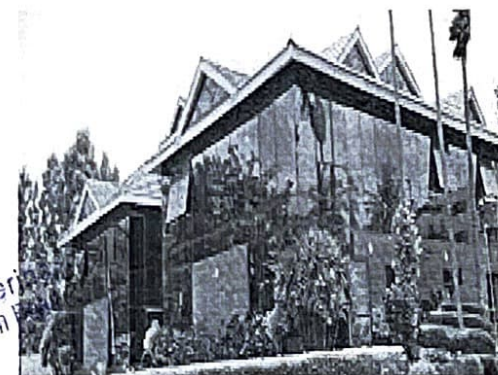
**Prof. Sumangala S J**  
Assistant Professor. EEE, SCE, Bengaluru



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

**“Developments in Electrical**  
**Engineering”**  
**FROM**  
**21<sup>th</sup> Feb. 2022 to 25<sup>th</sup> Feb 2022**

**Organized by**  
**Department of**  
**Electrical and Electronics**  
**Engineering**



Principal  
Sapthagiri College of Engineering  
14/5, Chikkasandra, Hesaraghatta Main  
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*[Handwritten signature]*

**Sapthagiri College of Engineering**

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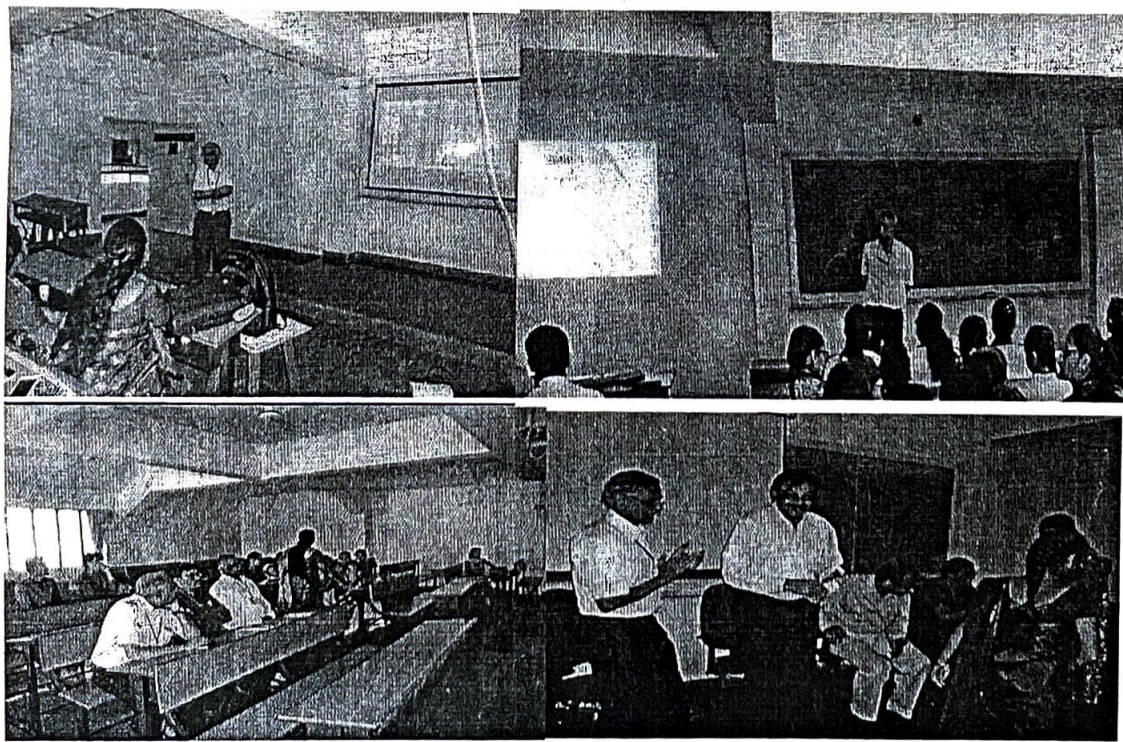
Phone: 080-28372800/01/02/03



**AY 2021-22**

**Report on FDP on "Developments in Electrical Engineering"**

Aiming to provide an additional skill and training on technical aspects and developments in Electrical Engineering, department conducted an FDP on "Developments in Electrical Engineering" 21th Feb. 2022 to 25th Feb 2022 by experts on different topics like High voltage engineering, electric drives, application of python power systems & also social & moral values in engineering. The technical sessions were very helpful in enhancing the technical knowledge amongst the faculty members. Overall the faculties felt that the session was very informative & gain knowledge.



  
FDP Coordinators

  
HOD, EEE  
Department of Electrical & Electronics Engineering  
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

Bangalore-560057

## Certificate

This is to certify that Mr. /Ms. A. Dhamodaran  
of Dept. of EEE, SCE has participated  
and successfully completed 05 days Faculty Development Programme  
on "Developments in Electrical Engineering" from  
21<sup>st</sup> Feb 2022 to 25<sup>th</sup> Feb 2022, organized by the Department of  
Electrical & Electronics Engineering, Sapthagiri College of Engineering.

  
Dr. Narayanappa

HOD, Dept. of EEE

  
Principal

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





# Sapthagiri College of Engineering

Bangalore-560057


## Certificate

This is to certify that Mr. /Ms. Prof. Rekha S.N.  
of Dept. of EEE, SCE has participated  
and successfully completed 05 days Faculty Development Programme  
on "Developments in Electrical Engineering" from  
21<sup>st</sup> feb 2022 to 25<sup>th</sup> feb 2022 organized by the Department of  
Electrical & Electronics Engineering, Sapthagiri College of Engineering.

  
Dr. Narayanappa

HOD, Dept. of EEE

  
Principal

  
Sapthagiri College of Engineering  
14/5, Chikkasandra, Hosur Road, Bangalore - 560 057



**Program Schedule:****21/03/2022:****9.30am - 10.30am - Inaugural Function.****Venue: ISE Seminar Hall****Followed by Technical Sessions.****Session 1: 9.30am-10.30 am.****Day- 1,2,3 Session 2: 11.00am- 12.30pm.****Session 3: 2.00pm – 3.30pm.****About the Workshop:**

Department of ISE has the tradition of organizing the Workshop for Technical Staff of SCE every Year. This AY too department of ISE is organizing the Workshop to focus on programming skills for technical supporting staff. It aims to cope up with revised curriculum for the students.

**Objectives:**

1. To understand the basic elements of MS-OFFICE 2010, Computer basics and Networks.
2. To understand the basics of C, AI /ML Python Programming ,Web Designing & other relevant Technologies.

**STAFF COORDINATORS****Prof. Prerana Chaithra****Prof. Priyanka MR****Prof. Veena Dhavalgi****SAPTHAGIRI COLLEGE OF ENGINEERING**

(Affiliated to VTU, Belagavi, Approved by AICTE, New Delhi)  
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(14001:2015 Certified Institution)

**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

**Organizes 3 Days Workshop  
for  
Technical Supporting Staff on  
"Advanced Programming Skills"**

**CHIEF PATRONS**

**Chairman  
Sri G. DAYANAND**

**Executive Director  
Sri G.D. MANOJ**

**Date : 21<sup>st</sup> – 23<sup>rd</sup> March 2022****Timings: 9:00 am - 3:30 pm****Venue: ISE Seminar Hall****Dr. H R Ranganatha****PROF & HEAD, ISE****Dr. H Ramakrishna**

**PRINCIPAL** Sapthagiri College of Engineering  
14/5, Chikkaenandra, Hesareghatta Main Rd.  
Bangalore - 560 057





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Fax: 080-28372797

### Department of Information Science & Engineering

#### 5 Days Workshop for Technical Supporting Staff

on

#### **“Advanced Programming Skills”**

The Department of Information Science & Engineering conducted 5 Days Workshop on “Advanced Programming Skills” for the Technical Supporting Staff of Sapthagiri College of Engineering from 21/03/2022 to 21/03/2022 at Sapthagiri College of Engineering (SCE). The Technical Supporting Staff from various departments of SCE participated in this workshop.

This workshop was organized to enhance the skillset of the Technical Supporting Staff of SCE. They can also use this skill set for their future professional growth. This workshop helped in the pruning of the programming skills of the Technical Supporting Staff so that they are well equipped to support the Faculties to conduct lab sessions effectively to the students. This was to spread equality in enhancing the skill sets of women.

This workshop was inaugurated on 21/3/2022 by Dr. H. Ramakrishna, Principal, SCE who encouraged the conduction of such events. Dr. H R Ranganatha, HOD, ISE welcomed the dignitaries and the workshop participants and gave an insight for the purpose of this workshop. Prof. Parshwanath, HOD, Mathematics inspired the participants to attend all the sessions effectively. The blessings of the GOD were sought through the invocation song by Prof. Priyanka M. R. Prof. Prerana Chaithra thanked the management, Principal, HOD, Organizers and participants of the conduction of this useful workshop. The workshop was concluded through Valedictory function where certificates were distributed to the participants. The trainers (Resource personnel) for this workshop were the faculties of the department of ISE

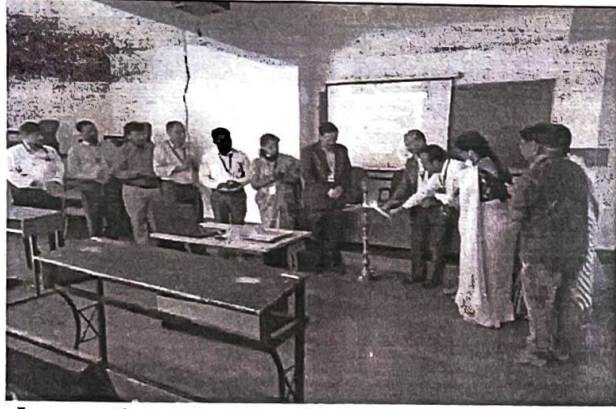
This workshop helped to enhance the technical skill set of the Technical Supporting Staff. The workshop was conducted successfully with the outcome of technically enhanced Technical Supporting Staff which was depicted through their feedback about the workshop.

Principal

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## Photos of the 5 Days workshop



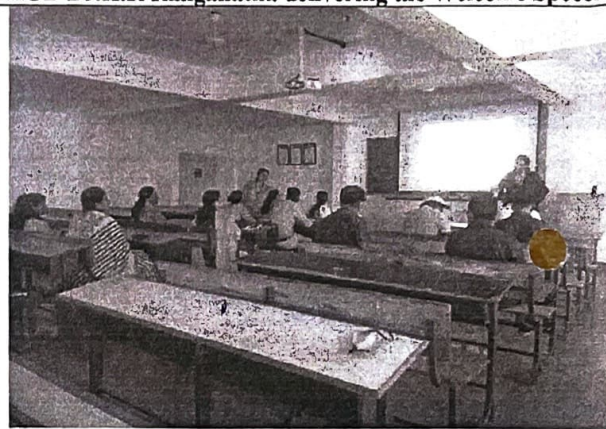
**Inauguration of the 5 days Workshop by Principal & HOD**



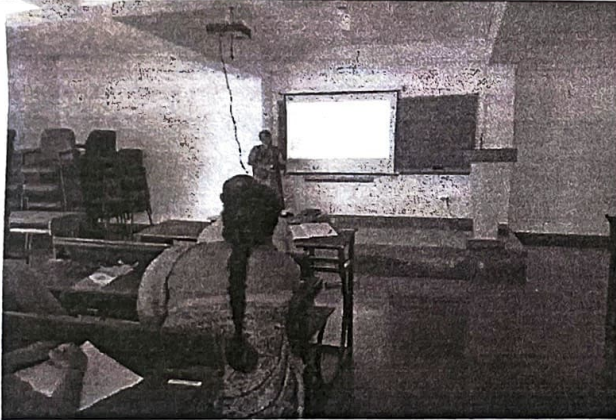
**HOD Dr.H.R Ranganatha delivering the Welcome Speech**



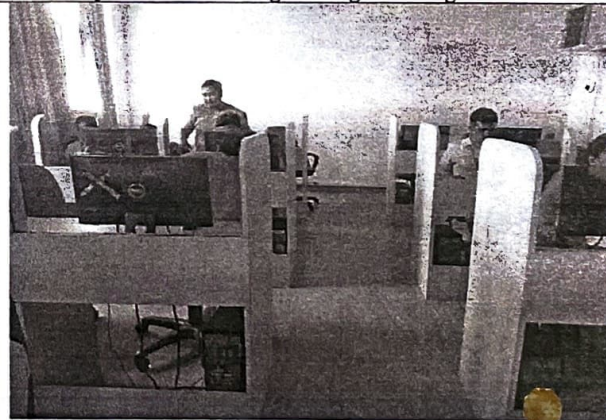
**Prof. Prerana Chaitra delivering Vote of Thanks.**



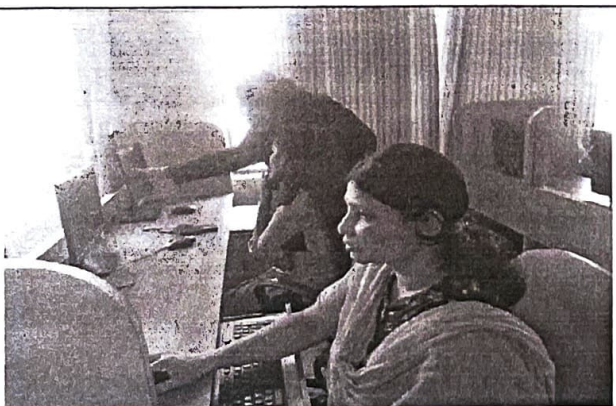
**Prof. Gayathri R. teaching C Programming.**



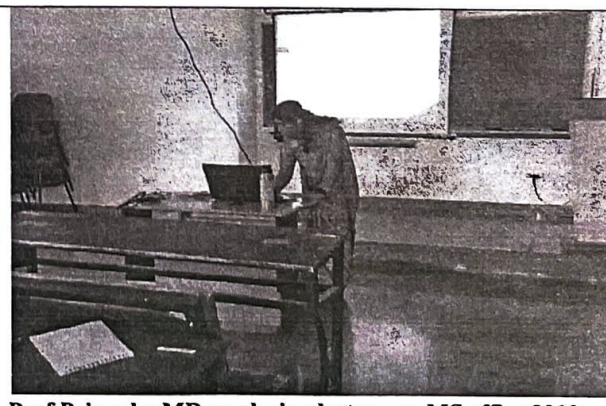
**Prof Sowmya rendering lecture on Basics of AI & ML**



**Prof Ambika handling lab session on Python**



**Prof Veena dhavalgi handling lab on C programming**



**Prof Priyanka MR rendering lecture on MS office 2010**

*Prerana*  
**Program Coordinator**  
(Prof. Prerana Chaithra)

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

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

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

**Dr. Karisiddappa**  
Vice Chancellor, VTU, Belagavi

**Dr. A.S.Deshpande**  
Registrar, VTU, Belagavi

**Dr. B.E.Rangaswamy**  
Registrar (Evaluation)  
VTU, Belagavi

**Patron:**  
**Dr. H.Ramakrishna**  
Principal, SCE, Bengaluru

**Co-ordinators:**

**Dr. Harish.R**  
Prof. Dept. of Physics &  
Co-ordinator, IQAC

**Dr. Tulsidas.D**  
Associate Prof –ME

**Dr. R.G.Deshpande**  
Associate Prof.-ME

**Organizing Committee:**

**Dr. Kamalakshi Naganna**

Professor & Head, Dept. of CSE

**Dr. H.R.Ranganatha**

Professor & Head, Dept. of ISE

**Dr. P. Mahadevaswamy**

Professor & Head, Dept. of ME

**Dr. Narayanappa**

Professor & Head, Dept. of EEE

**Dr. H.C.Sateesh kumar**

Professor & Head, Dept. of ECE

**Dr. Rajeshwari R**

Associate Professor & Head, Dept. of CV

**Dr. Veena S.More**

Professor & Head, Dept. of BT

**Dr. B.S. Krishna**

Professor & Head, Dept. of Chemistry

**Dr. G.V. Jagadeesha Gowda**

Professor & Head, Dept. of Physics

**Prof. Parshwanath**

Professor & Head, Dept. of Mathematics

**Dr. Nagaraj A.M.**

Professor, Dept. of ECE

**Dr. Venkatesha**

Chief Librarian.



## Three Days Faculty Development Program

**“Innovative Tools / Techniques  
to Improve Quality of  
Teaching- Learning”**

**April 7<sup>th</sup> - 9<sup>th</sup> , 2022**

Organized by  
**Internal Quality Assurance Cell**  
(IQAC), SCE, Bengaluru



**SAPTHAGIRI COLLEGE OF ENGINEERING**

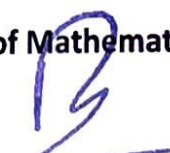
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Principal  
Sapthagiri College of Engineering  
14/5, Chikkasandra, Hesaraghatta Main Road  
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### About Institution:

Sapthagiri College of Engineering was established in the year 2001 by Shri. Srinivasa Educational and Charitable Trust with a vision to transform the students into competent, inspired and responsible professionals in technical field to fulfill needs of the society. SCE is well known for its academic excellence with well qualified faculty and state of art infrastructure and imbining good moral values, ethical values, success in education and developing leadership qualities among the students.

### 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.
- To Strengthen Industry-Institute Interaction for knowledge sharing.

### About IQAC :

IQAC is an integral part of the system of Sapthagiri College of Engineering and works towards realization of the goals of quality enhancement and for continuous improvement. The prime task of the IQAC is to develop a system for conscious, consistent and catalytic improvement in the overall performance of the institution. The vision of IQAC is to ensure quality culture as the prime concern through institutionalizing and internalizing all the initiatives taken with internal and external support

**Overview of FDP :** National Education Policy (NEP) 2020 mandates that the learning should be holistic, integrated, inclusive, enjoyable, and engaging. In order to encourage holistic development skills such as critical thinking, creativity, scientific temper, multilingualism, problem solving, ethics and social responsibility are essential. Hence, Innovative tools and techniques in education encourages students and teachers to research, explore, and use all the tools in problem solving and promotes critical thinking. The FDP is well planned to orient the faculty on Innovative techniques / practices to be implemented for the successful implementation of NEP and to promote outcome based education.

### Resource Persons:

**Dr. Kanmani Buddhi**

Dean- Academics, Professor, Dept. of Electronics and telecommunication Engineering, BMSCE.

**Mr. Yogesh Mahadevaiah**

Product Solutions Ionidea Interactive Pvt.Ltd.

**Dr. Narasimha Murthy**

Quality Head & Senior Director of Infineon Technologies.

### Schedule :

Date	Time	Event / Speaker
7/4/2022	10.30 am	Inauguration and Welcome
	10.45 am -12.30 pm	Talk by, <b>Dr. Kanmani Buddhi</b>
8/4/2022	10.30 to 12.30	Talk by <b>Mr.Yogesh.M</b>
9/4/2022	10.30 to 12.30	Talk by <b>Dr. Narasimha Murthy</b>
	12.30	Feedback / Valedictory

### Contact for Details :

**Dr.Tulsidas.D - : 9886438036**

**Dr.R.G.Deshpande : 9844217187**

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**Who can apply:** Faculty Members from all disciplines, working in VTU affiliated institutions / Autonomous Institutions and other Universities.

### Registration Link :

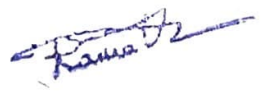
<https://forms.gle/LP82SjtuPQ5fFpQ9>

Certificates will be issued to all participants



## Schedule of the Training sessions

Date	FN Session Theory session ( 9 am to 12.30 pm)	AN Session Hands on session ( 1.30 pm to 4 pm)	Resource Person
21/3/2022	<ul style="list-style-type: none"> <li>• Structure of C program</li> <li>• variables</li> <li>• conditional statements</li> <li>• loop constructs-</li> <li>• functions</li> </ul>	Sample C programs	Prof. Gayathri R Prof. Veena Dhavalagi
22/3/2022	<ul style="list-style-type: none"> <li>• Introduction to python language</li> <li>• Python Basics</li> <li>• Building blocks</li> <li>• Iterations and conditional statements</li> <li>• Functions, List, tuples, Dictionary</li> </ul>	Simple Python programs using Anaconda Navigator	Prof. Ambika. S
23/3/2022	<ul style="list-style-type: none"> <li>• Introduction to AI</li> <li>• Basics of machine learning concepts</li> </ul>	Programs relevant to AI	Prof. Sowmya Somanath
24/3/2022	<b>HTML</b> <ul style="list-style-type: none"> <li>• Sample ad hoc markup</li> <li>• HTML Page Structure</li> <li>• Code writing for a simple web page</li> <li>• Semantics of HTML</li> </ul> <b>CSS-OVERVIEW</b> <ul style="list-style-type: none"> <li>• CSS Syntax</li> <li>• Example for html and CSS</li> <li>• Selectors- Properties and value pair</li> <li>• Predefined CSS Properties and values</li> </ul>	creation sample web pages and executing simple files in local server	Prof. Ramya R
25/3/2022	MS Word, Excel, PPT and Brochure Design	Creation of <ul style="list-style-type: none"> <li>• Document using MS Word</li> <li>• Spread sheets</li> <li>• Power point presentation</li> <li>• Brochure</li> </ul>	Prof. Priyanka M R

  
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Report of,  
**Faculty Development Program,**

On,

**“Innovative Tools / Techniques to Improve Quality of Teaching Learning”**

**(April 7<sup>th</sup> to 9<sup>th</sup>, 2022)**

**INTERNAL QUALITY ASSURANCE CELL (IQAC)**

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## Internal Quality Assurance Cell (IQAC) & Department of Mechanical Engineering

Report of,

### Faculty Development Program,

On,

### "Innovative Tools / Techniques to Improve Quality of Teaching Learning"

(April 7<sup>th</sup> to 9<sup>th</sup>, 2022)



**Inauguration Function of FDP**

Inauguration of Faculty Development program was held on 7<sup>th</sup> April 2022 at 10.30 am, in the seminar hall, Sapthagiri college of Engineering, under the guidance of the **Dr. H. Ramakrishna**, Principal / Convener of FDP. The ceremony was witnessed by the heads of departments of various sections, faculties and more than 150 participants who joined the event off-line. The event was inaugurated by seeking blessings of god through a prayer rendered by Mr. Vibhvasu (I Sem CSE) student. Master of ceremony for the day 1 FDP was carried out by Mr. Mr.Thejas.M.S, Asst. Prof. Dept. of ME. The FDP was inaugurated by lighting the lamps by Principal, Guest of Honor and other dignitaries. Around 150 faculties registered and attended the FDP of which 10 faculties were from other institutions.

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## Internal Quality Assurance Cell (IQAC) & Department of Mechanical Engineering

### Program Schedule (Day -1)

Sl.No.	Day	Time	Event	Distinguished Person
1	7/4/2022	10.30 am	Welcome / Overview of FDP	<b>Mr.Thejas.M.S</b> Asst. Prof. Dept. of ME)
		10.40am	Invocation Song	<b>Vibhavasu</b> (I Sem CSE)
		10.45 am	Lighting the Lamp	Principal & Guest
		10.50 am	Opening Remarks	<b>Dr.H.Ramakrishna</b> Principal, SCE
		11.00 am	Presentation –OBE & NEP Frame work	<b>Dr.Kanmani.B</b> Dean- Academics, Professor, Dept. of Electronics and telecommunication Engineering, BMSCE.
		12.30 pm	Interaction	With participants
		12.45 pm	Vote of thanks	Mr.Thejas.M.S

In the welcome speech **Dr. H. Ramakrishna**, Principal / Convener of FDP, emphasized on the relevance of organizing FDP in the present context and urged the entire faculty of SCE and other institutions, to actively participate in the event by interacting with the resource person to get maximum benefit of the FDP. He also urged on the need of overall development of faculty by updating with latest trends & techniques in teaching-learning.



Principal, Dr. H. Ramakrishna presenting opening Remarks during inauguration of FDP



## Internal Quality Assurance Cell (IQAC) & Department of Mechanical Engineering



Participants of the FDP

After the inauguration, the resource person for the first day session Dr.Kanmani.B , Dean- Academics, Professor, Dept. of Electronics and telecommunication Engineering, BMSCE presented on, OBE & NEP Framework. The resource person in her presentation initially oriented on the need of outcome based education and presented in detail on the course outcomes, program outcomes and mapping of course and program outcomes. The resource person then deliberated on the role of students and faculty and their contribution in outcome based teaching –learning process. Then in the later part of presentation the resource person oriented on the NEP framework and the need of its effective implementation in achieving outcome based education.



Resource person Dr.Kanmani.B , during her presentation on day-1 of FDP





## Internal Quality Assurance Cell (IQAC) & Department of Mechanical Engineering Program Schedule (Day -2)

Sl.No.	Day	Time	Event	Distinguished Person
1	8/4/2022	10.30 am	Welcome	Mr. Mohan.A.E Asst. Prof. Dept. of ME)
		10.40 am	Opening Remarks	Dr.H.Ramakrishna Principal, SCE
		11.00 am	Presentation "Outcome Based / Competency based education and its automation through IonCUDOS to achieve academic excellence".	Mr. Yogesh Mahadevaiah Manager, Product Solutions Ionidea Interactive Pvt. Ltd.
		12.30 pm	Interaction	With Participants
		12.45 pm	Vote of thanks	Mr. Mohan.A.E

On the Day-2 of FDP, the master of ceremony was rendered

By, Mr.Mohan.A.E, assistant professor, department of Mechanical Engineering, and in opening remarks Principal Dr.H. Ramakrsishna highlighted on the need of using tool / Techniques in assisting teaching learning process for Outcome based education.



Principal Honoring Resource Person



Resource person during presentation



## Internal Quality Assurance Cell (IQAC) & Department of Mechanical Engineering

In his presentation, the resource person Mr. Yogesh Mahadevaiah, Manager, Product Solutions Ion idea Interactive Pvt. Ltd., Presented on "Outcome Based / Competency based education and its automation through IonCUDOS to achieve academic excellence". Initially the resource person oriented the participants on the need of software / tool in teaching-learning and how to make the best use of this in achieving outcome based education. The resource person later in his presentation demonstrated the contents of the software in detail and how to edit the data related to students, faculty from each program. The resource person also demonstrated on how effectively the software can be used to map the course and program outcomes by quoting a number of examples. Also the resource person deliberated on the innovative tools and techniques used in class room to conduct activities and how to map these activities to program outcomes.



Participants on day-2 FFDP



Resource person interaction with Participants



## Internal Quality Assurance Cell (IQAC) & Department of Mechanical Engineering Program Schedule (Day -3)

Sl.No.	Day	Time	Event	Distinguished Person
1	9/4/2022	10.30 am	Welcome	Mr. Sathish Kumar Y D Asst. Prof. Dept. of ME
		10.40 am	Opening Remarks	Dr. H Ramakrishna Principal, SCE
		10.45 am	Presentation- "Tools & Techniques to Overcome Challenges and Create Opportunities for Teachers in Modern Education System"	Dr. Narasimha Murthy Quality Head & Senior Director of Infineon Technologies
		12.00 pm	Interaction	With participants
		12.15 pm	Feedback	From participants
		12.45 pm	Report on FDP & Vote of thanks	Dr. Harish R Prof. Dept. of Physics & Co-ordinator, IQAC

On the day-3 of FDP, the master of ceremony was rendered By, Sathishkumar.Y.D, assistant professor, department of Mechanical Engineering and in opening remarks Principal Dr.H. Ramakrishna highlighted on the need of Outcome based education in modern education system and stressed on the need of change of role of teachers in improving quality of teaching – learning.



Principal Dr.H. Ramakrishna honoring resource person Dr. Narasimhamurthy



## Internal Quality Assurance Cell (IQAC) & Department of Mechanical Engineering

Later feedback on the three day FDP was given by the participants who expressed their views on the conduction of FDP and exchange of information during the event. Finally, Dr. Harish R, Prof. Dept. of Physics & Co-ordinator, IQAC presented a detailed report on three FDP and stressed on the need of faculty to get equipped with modern tools / techniques to sustain outcome based education.



Dr. Harish.R presenting report on FDP



Co-ordinators with Resource Person

  
**Dr. R. Harish**  
(Co-ordinator, IQAC)

  
**Dr. P. Mahadevaswamy**  
(Prof. & Head - ME)

Department of Mechanical Engineering

Sapthagiri College of Engineering Page 8

FDP-2021-22, SCE, Bengaluru-57

  
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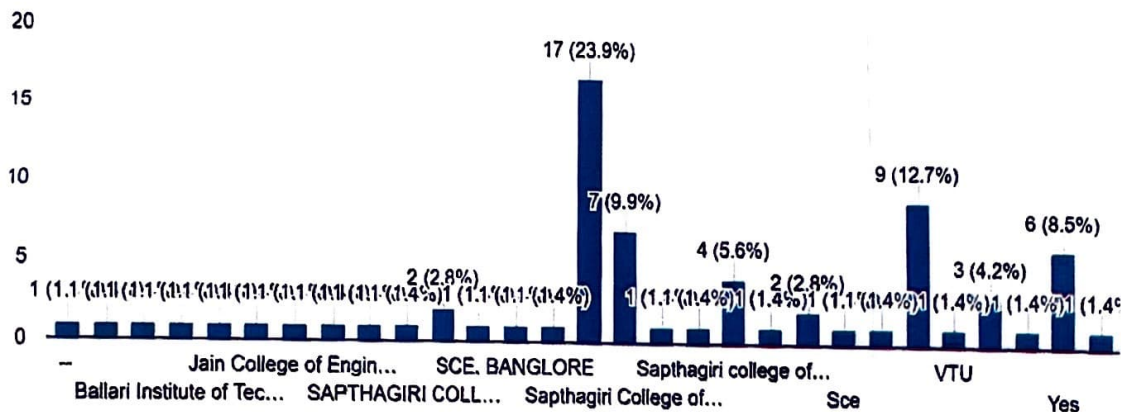


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**Please rate on the relevance of conduction of the FDP in the present context.**

- Most appropriate
- Appropriate
- To some extent appropriate
- Not appropriate

## 71 responses

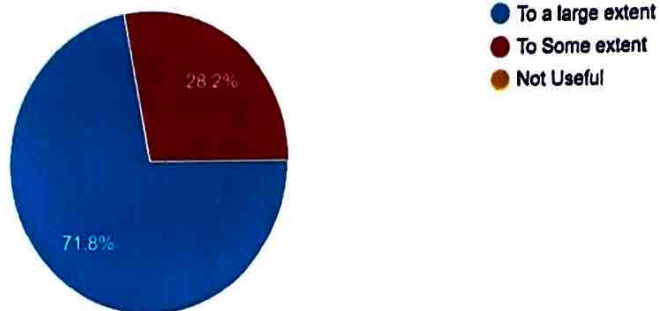


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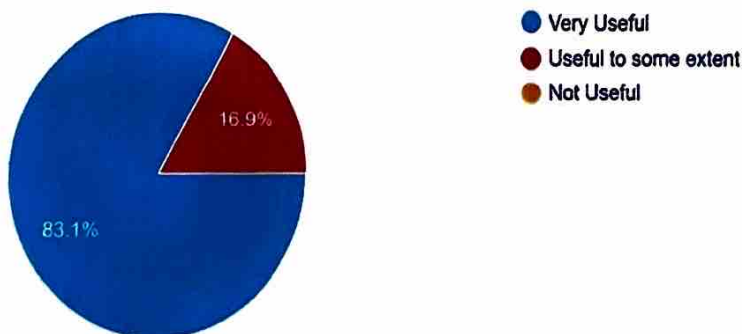
To what extent the resource person was able to cover the basic concepts relevant to OBE and NEP Framework ?

71 responses



Whether the tips / techniques suggested by the resource person were useful?

71 responses

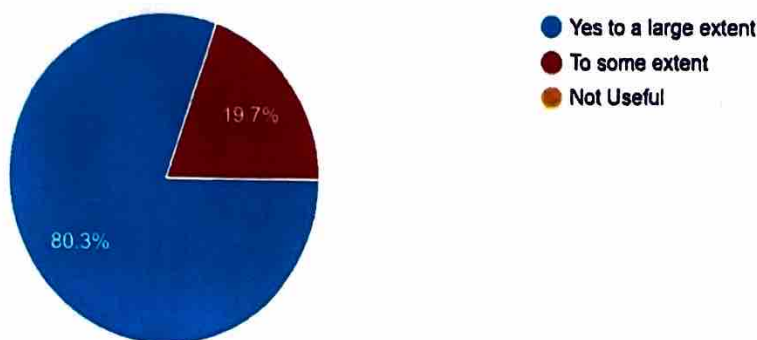



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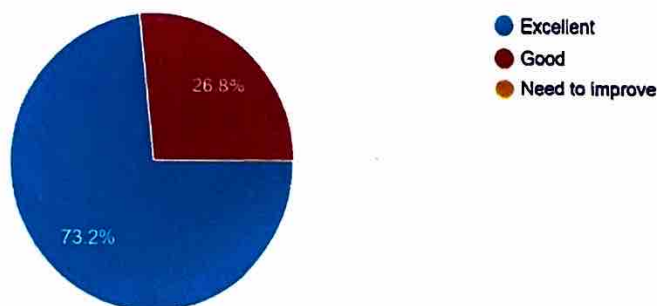
Whether the resource person was successful in motivating you to practice Outcome Based Education concepts in your institution ?

71 responses



How do you rate the overall organization of the session on day -1 ?

71 responses



Additional Comments.

Good  
Nil  
Very good  
NIL  
NA  
Session was nice  
Informative  
Satisfied



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No comments

Overall good

Add some methodology tool adopt in Innovation

Excellent

Nil

Duration of the FDP may be extended

Program was informative

More & more details about OBE

Very informative session

Many more such sessions

We need more such programs on abet, atal and nirf ranking procedures and documentation

Over all the session was good

Informative Session

Everything was good.

More such events

Good advice on NBA process and NEP

Very informative

Nothing

Need more such events.

Need still more sessions like this

Informative session

session was informative

-

It became completely OBE oriented and NBA oriented, If speaker would have presented any one of the Innovative tools for teaching to achieve this OBE, it would have been more helpful to the faculty Thank you for arranging this FDP

Topic covered by DrKanmani is different from FDP title

It was really good and valuable

Conduct more program in future

very useful for NEP

The session was beneficial to the faculty, and we anticipate more FDP in the future.

It was good

Please include Innovative Methods of Teaching Pedagogy

Very valuable session


nil

It was very good

Nice

Very useful

FDP was informative



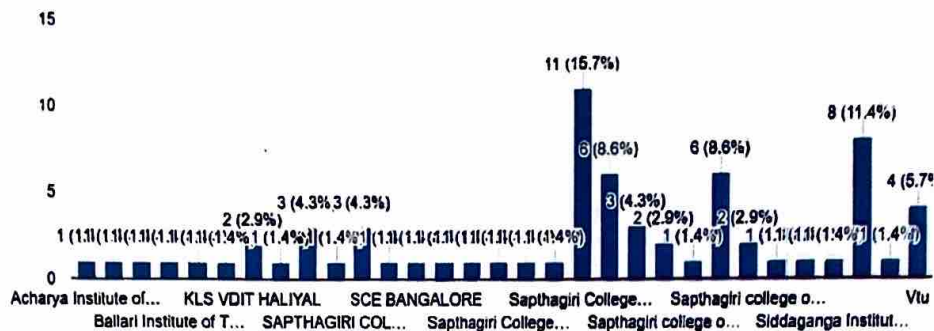
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**Session was good**

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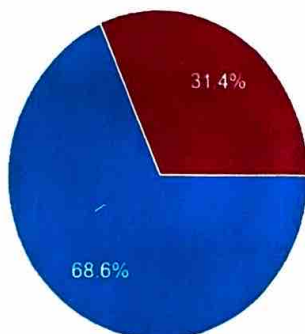


Affiliation  
70 responses



To what extent the resource person was able to orient you on the Use of Software as a tool in OBE ?

70 responses

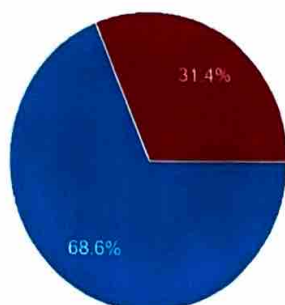


- To large extent
- To some extent
- Not useful

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To what extent the resource person was able to cover all the features of software and their effective utilization?

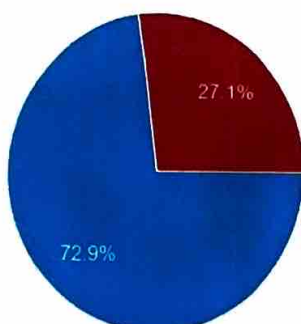
70 responses



- To a large extent
- To Some extent
- Not Useful

Whether the tips / techniques suggested by the resource person were useful?

70 responses



- Very Useful
- Useful to some extent
- Not Useful



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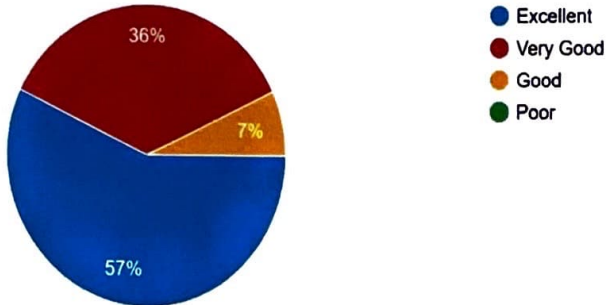


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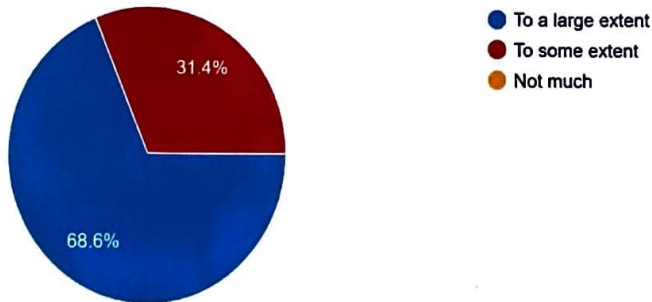
3.. How do you rate the value addition by key note speakers & Session chair to the sessions of ICGCP 2022 ?

86 responses



4.To what extent did the presentations & interactions motivate you to carryout research more effectively in future ?

86 responses



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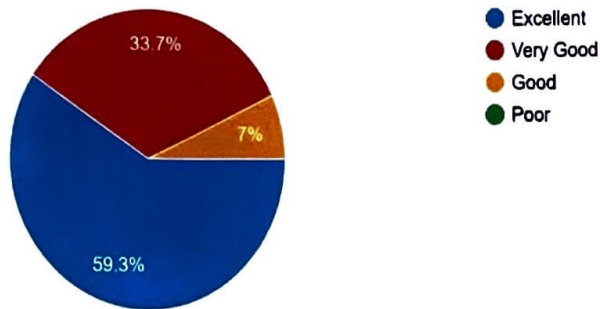


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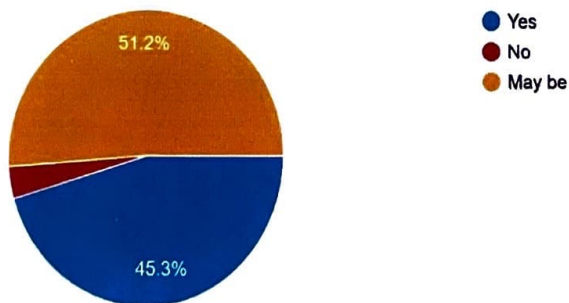
## 5. How do you rate your overall experience at ICGCP-2022?

86 responses



## 6. Do you express your willingness to participate in ICGCP-2023 at Sapthagiri College of Engineering ?

86 responses



## Any other comments/ Suggestions for improvement

Good

Nothing

Nothing

NA

No

It was Excellent

No suggestions

None.

Good experience

None

Good

More interactive sessions, more guidance

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My teammates had a good experience

it was a great experience and good exposure

Nothing right now

It's was a very good experience with the publishing of papers.

Everything was fine it was excellent

Good Experience

No comments

GOOD EVENT

No suggestions thank you for this valuable opportunity to present our project. Feeling honoured

It was a great experience and we gained a good knowledge which is helpful for our future career.

It was quite good experience for us that we could present our ideas and innovations in front of people of such a high stature. Looking forward to participate in the next one hopefully.

No comments

no comments

Nil

The conference was well planned and organized. Encouraged the students towards more qualitative technical research in future.

Nothing

How to do research on topics?

Thank you so much for arranging this event in our college and it help us gaining knowledge

It was very good experience

Had a great experience

Very good experience

It was a great experience Thank you for it!

Nil

Nyc

Everything good

Good it was very nice place to present our ideas.

The conference was helpful

..It was overall a very well organized program

We got lot of things to learn and we got an idea how to further implement our project in future.

It was really helpful

Nice

Would have been better if we could have the chance to see conference paper presentations on other branches as well.

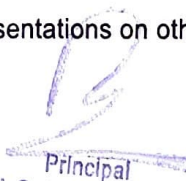
Everything's good and nothing to suggest

It was well and good

It was very good

Encourage the new ideas projects

Nothing to add

  
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Excellent Conduction

Motivated me conduct more research

Informative

It was a good conference and a presentation

No response

this was a great opportunity to express about our project

ICGCP was good. Enjoyed participating in it.

Time limit for presentation should be followed.

**Dr. R.Harish**  
Co-Chair, ICGCP-2022

**Dr.H.Ramakrishna**  
Principal & Chairman –ICGCP-2022

  
Principal  
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