

## **DVV CLARIFICATION**

Sub-Metric: 6.3.3: Average number of professional development /administrative training programs organized by the institution for teaching and non-teaching staff during the last five years

### **INDEX SHEET**

Sl. No	DVV Findings	Index Link
1	Copy of Reports of professional development /administrative training ,programs organized by the institution for AY-2020-21	<a href="#">1-12</a>
2	Copy of Reports of professional development /administrative training programs organized by the institution for AY-2019-20	<a href="#">13- 27</a>
3	Copy of Reports of professional development /administrative training programs organized by the institution for AY-2018-19	<a href="#">28 - 50</a>
4	Copy of Reports of professional development /administrative training programs organized by the institution for AY-2017-18	<a href="#">51 - 72</a>
5	Copy of Reports of professional development /administrative training programs organized by the institution for AY-2016-17	<a href="#">73 - 95</a>

The above mentioned documents tabulated in the above table are verified and found correct

  
 Principal  
**PRINCIPAL**  
**ATME College of Engineering**  
 13th KM Mysuru-Kanakapura-Bangalore Road  
 Melahalli Mysuru-570 028

## **IPR AND ITS ROLE IN RESEARCH AND INNOVATION**

ATME College of engineering had organised a webinar on “*IPR and its role in research and innovation*” on Nov 20<sup>th</sup> 2020. The webinar was conducted in MS Teams platform and a total of 115 participants from ATMECE and other institutions had participated. The webinar was scheduled at 10AM with formal introduction about the webinar followed by brief introduction of resource person.

Dr. Prachi Chopra, President, Delhi innovation council was kind enough to accept our invitation as resource person to educate the faculty members of various educational streams about the importance of IPR and its role in research and innovation.

Dr. Bhagyashree S R, Dean-Research and professor, ATMECE and Dr. Parthasarathy L, IEEE student branch counsellor, Professor and Head, Dept. of EEE ATMECE, were the convenors of the program.

Dr. Md Nadeem M, Asst. professor, Dept of ME, Mrs. Nasreen Fathima, Asst. professor, Dept of CSE and Mr. Vinod Kumar P, Asst. professor, Dept of EEE Organised and hosted the webinar.

Dr. Prachi chopra discussed about the importance of intellectual property rights and the crucial role of intangibles such as technology, design and branding in international manufacturing. Analysis was done by case studies pertaining to various innovations.

Dr. Prachi chopra emphasized the importance on protecting the IP law by, for example, patents, copyright and trademarks with the help of IP law. She motivated the audience to earn recognition or financial benefit from what they invent or create. By striking the right balance between the interests of innovators and the wider public interest, the IP system could be aimed to foster an environment in which creativity and innovation can flourish.

As is the case with inventions, utility models’ patents and patents are relevant for protecting, managing, exploiting innovations. Patents are the preferred IP right sought for the protection of technological innovations. Dr. Prachi mentioned that the number of patents owned by an enterprise is often used as one of the main indicators for determining its innovation intensity and patents are used as a measure of output of innovation. While such an approach is useful, it

does not look at the role of the IP system as a whole in facilitating the successful introduction of innovative products in the marketplace.

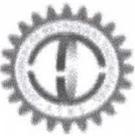
Dr. Prachi Chopra answered the questionnaires raised by the participants and gave them suggestions providing information related to patents, copyrights and trademark etc.

At the end Dr. Bhagyashree S R concluded the webinar by giving vote of thanks to Dr. Prachi chopra, Management of ATMECE, Dean, HODs and all the participants. Feedback form was floated to all the participants through participants respective email IDs for effective management and documentation.



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Mallahalli Mysuru-570 028



## Report on Latest Technologies in Manufacturing & Area of focus for Today's Engineering students"

National Webinar conducted on 14<sup>th</sup> October 2020 through online on the topic "Latest Technologies in Manufacturing & Area of focus for Today's Engineering students" was organized with the intension to give the awareness and Knowledge on latest trends in manufacturing and its advancements also areas to focus in latest manufacturing techniques and methods to the **final year students (2020-2021)**.

The invited speaker **Mr. Nanjunda Naika from BEML**, addressed our final year students with the above said topic and expressed best wishes to Final year students at the end of the session.

Mr. Devaraj M R welcomed the speaker, Professors, Deans, Faculty and all the participants to the webinar. Mr. Yashwanth N rendered the vote of thanks to Speaker and all participants.

This event was coordinated by:

Mr. Devaraj M R,  
Dr. Mohanakumara K C  
Mr. Yashwanth N and  
Mr. Niranjana kumar V S.

**Speaker:**

**Mr. Nanjunda Naika**

Name: R. NANJUNDA NAIKA

Present Designation: Asst. General Manager,  
M/s BEML Ltd. Mysuru

Qualification: Bachelor of Engineering, SJCE, Mysuru.

Experience: 26 Years. ISTD Membership No: N- 415 / 2019

Date: 14<sup>th</sup> October 2020

Time: 3.00 PM

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ATME College of Engineering  
13th KM Mysuru-Kanakapura-Bangalore Road  
Mallahalli Mysuru-570 028



# A T M E

College of Engineering



## Department of Mechanical Engineering

Date:10-08-2020

To,  
The Principal,  
ATMECE,  
Mysore-570028

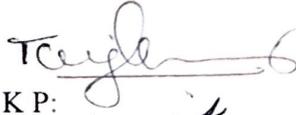
Respected Sir,

**Subject: Permission to conduct National Level online Faculty Development Program reg.**

We are planning to organize a National level 3-day online Faculty Development Program on AICTE Exam Reforms. The FDP is planned to be conducted from 27-08-2020 to 29-08-2020. The resource persons are the Faculty members from our Institution and They are; Prof. Ravikumar S, Dr. Chethan S, & Dr. Md. Nadeem from Dept. of ME, Prof. Raghavendra L, from Dept. of EEE, Prof. Sunitha Patel & Prof. Nasreen Fathima from Dept. CSE and Prof. Abhilash G, from Dept. of EC. The FDP will be conducted online using Microsoft Teams platform. The registration will be free and participants will receive an e-certificate after attending three days FDP.

In this regard we request your permission to conduct the same. The detailed report of the FDP will be submitted to you after the conduction of the program.

Thanking you Sir,

Prof. Thejkumar J: 

Prof. Pavan Kumar K P: 

Permitted  
 10.8.2020

Yours

  
HoD 10/8/2020

**Department of Mechanical Engineering**

**A Report on National Level 3 Day Online Faculty Development Program  
on  
AICTE Exam Reforms-An Overview.**

Mechanical Engineering department had organised a National level 3 Day Online FDP on AICTE Exam Reforms-An Overview from 27<sup>th</sup> Aug to 29<sup>th</sup> Aug 2020. Participants from various states have registered for the program. The Resource persons were the faculty members from various Engineering Departments of ATMECE. The registration was free and the Participants were issued an e-certificate upon successful completion of all the three days program. The FDP was inaugurated by our honourable Principal Dr. Basavaraj L. In his inaugural address he has highlighted the necessity of exam reforms in the back ground of New Education Policy implemented by the Ministry of Higher Education, Govt. of India. He has expressed his happiness about the interest shown by all the Participants across India and appreciated the efforts of the coordinators in organising such a useful FDP.

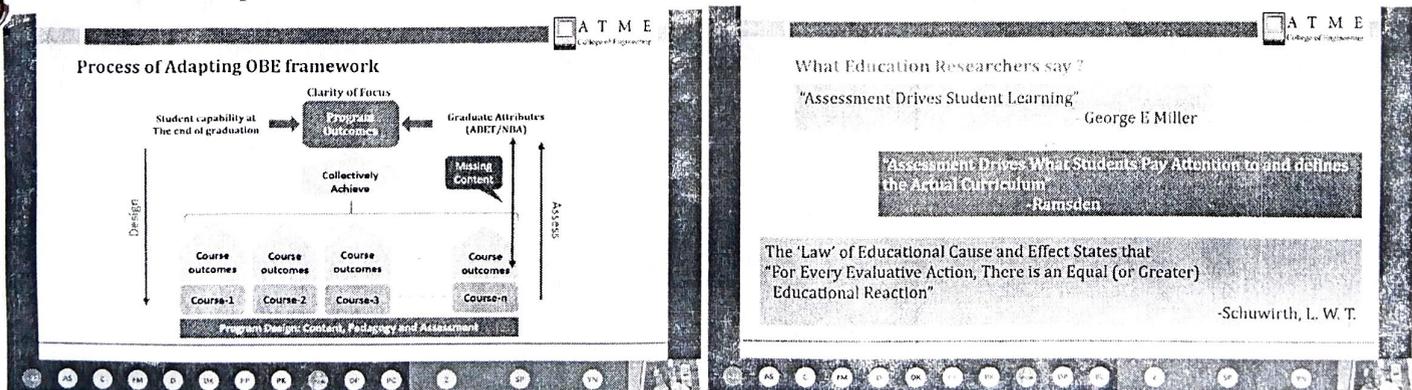
The session wise details are as follows;

**Day 1:**

Inaugural function followed by **Session 1:** From 10:00 am to 11:30 am,

**Resource Person:** Prof. Ravikumar S, Assoc. Prof., Dept. of ME, ATMECE, Mysuru.

**Topics covered:** - Introduction to AICTE Exam reforms, Three Key elements of student learning, Key drivers of Examination reforms and key issues addressed by the Examination Reforms Report Nov. 2018.



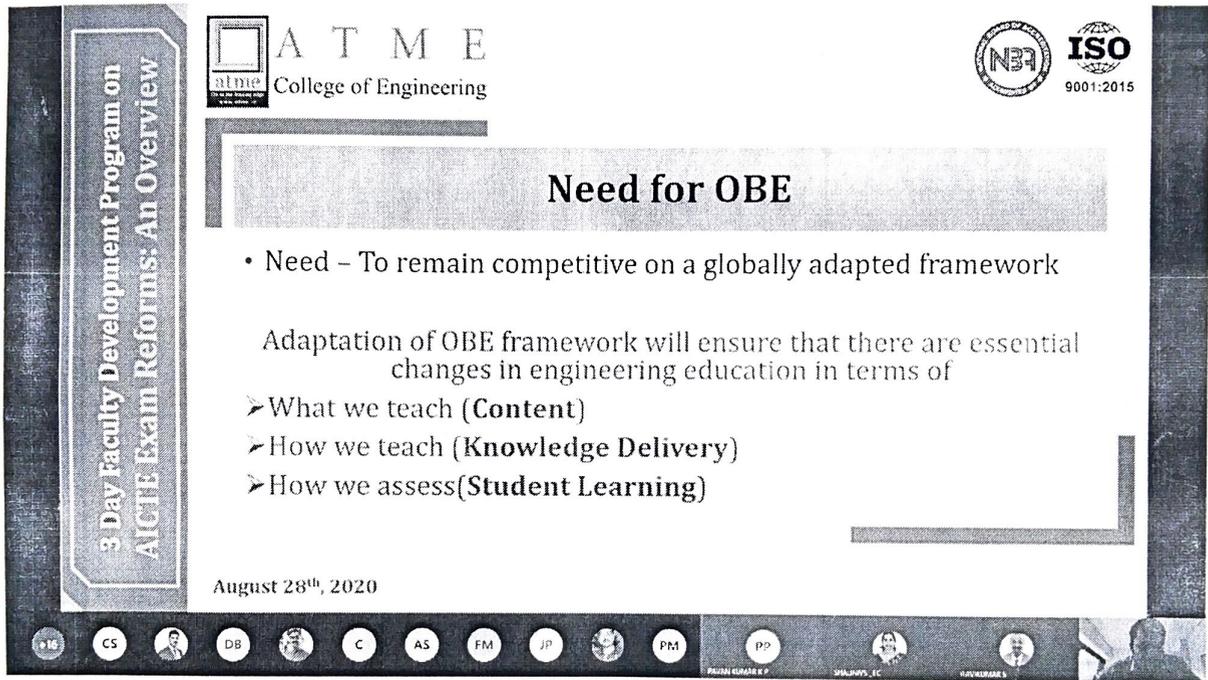
*Prof. Ravi Kumar S presenting the topic on Introduction to AICTE Exam Reforms*

## Department of Mechanical Engineering

**Session 2:** From 12:00 noon to 1:30pm

**Resource person:** Prof. Abhilash G, Asst. Prof. Dept. of ECE, ATMECE, Mysuru

**Topics covered:** Need for Outcome Based Education and three concepts for Implementing OBE, OBE Philosophy, curriculum Design, Traditional education v/s OBE, Elements of OBE, three concepts to be understood for easy implementation of OBE.



The screenshot shows a presentation slide with the following content:

- ATME College of Engineering logo and name at the top left.
- ISO 9001:2015 logo at the top right.
- Vertical text on the left: "3 Day Faculty Development Program on AICTE Exam Reforms: An Overview".
- Section title: "Need for OBE".
- Bullet point: "• Need – To remain competitive on a globally adapted framework".
- Text: "Adaptation of OBE framework will ensure that there are essential changes in engineering education in terms of".
- List of three points:
  - What we teach (**Content**)
  - How we teach (**Knowledge Delivery**)
  - How we assess (**Student Learning**)
- Date: "August 28<sup>th</sup>, 2020".
- Bottom navigation bar with icons for ME, CS, DB, C, AS, FM, JP, PM, PP, and others.

*Prof. Abhilash G presenting the topic on Need of OBE*

### Day 2:

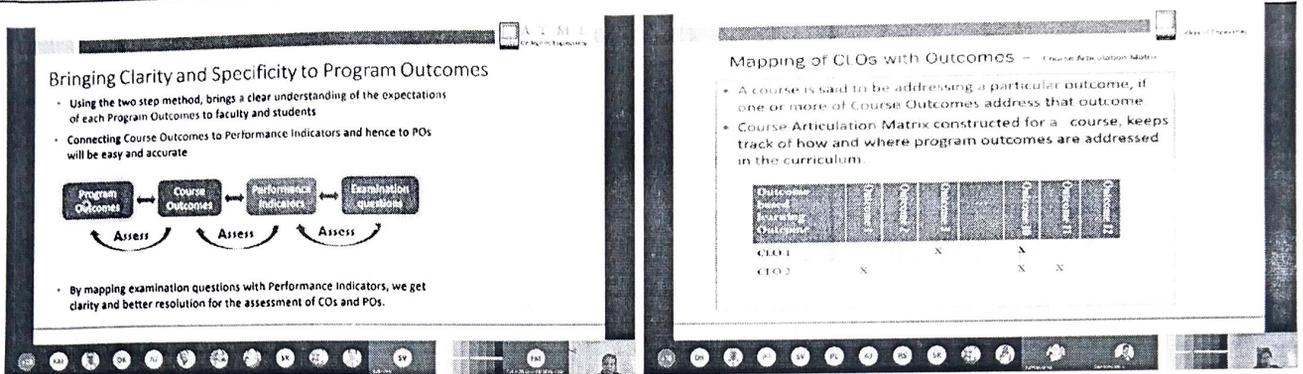
**Session 1:** From 10:00 am to 11:30 am,

**Resource Persons:** Prof; Sunitha Patel, Asst. Prof. Dept. of CSE, ATMECE, Mysuru

Prof: Nasreen Fathima, Asst. Prof. Dept. of CSE, ATMECE, Mysuru.

**Topics Covered:** Understanding Graduate attributes, Components of Program Outcomes, Process of adopting OBE frame work, understanding Course Outcomes (COs), Characteristics and Structure of CO, Guidelines for writing COs.

## Department of Mechanical Engineering



**Bringing Clarity and Specificity to Program Outcomes**

- Using the two step method, brings a clear understanding of the expectations of each Program Outcomes to faculty and students
- Connecting Course Outcomes to Performance Indicators and hence to POs will be easy and accurate

**Mapping of CLOs with Outcomes**

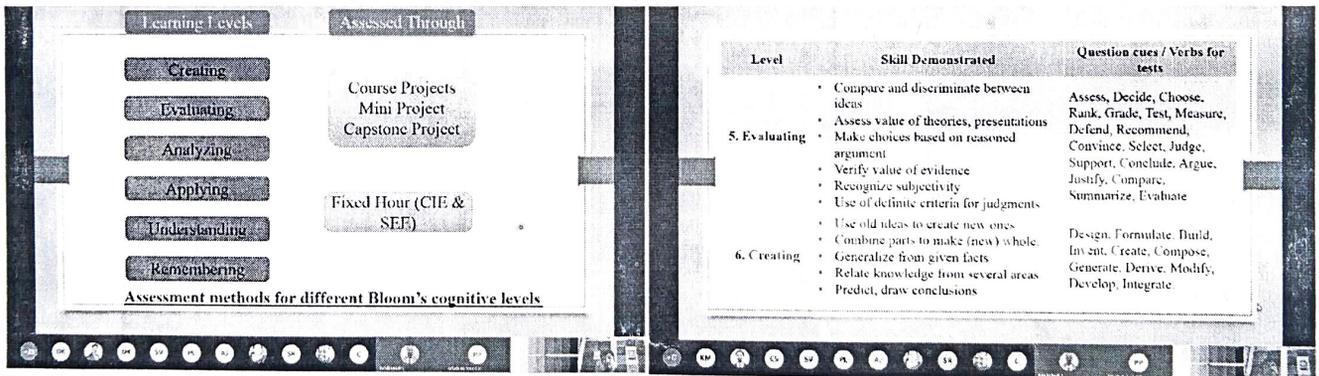
Outcome Based Learning Outcomes	Basic	Intermediate	Advanced
CLO 1		X	X
CLO 2	X		X X

*Prof. Sunitha Patel & Prof. Nazreen Fathima presenting on the occasion on FDO AICTE Exam Reforms Day-2*

**Session 2:** 12:00 noon to 1:30pm.

**Resource Person:** Prof. Raghavendra L, Assoc. Prof., Dept. of EEE, ATMECE, Mysuru.

**Topics Covered:** Blooms Taxonomy and its use in designing assessments, Action verbs for assessments, Assessment planning, examples of typical questions for each BTL.



Level	Skill Demonstrated	Question cues / Verbs for tests
5. Evaluating	<ul style="list-style-type: none"> <li>Compare and discriminate between ideas</li> <li>Assess value of theories, presentations</li> <li>Make choices based on reasoned argument</li> <li>Verify value of evidence</li> <li>Recognize subjectivity</li> <li>Use of definite criteria for judgments</li> </ul>	Assess, Decide, Choose, Rank, Grade, Test, Measure, Defend, Recommend, Convince, Select, Judge, Support, Conclude, Argue, Justify, Compare, Summarize, Evaluate
6. Creating	<ul style="list-style-type: none"> <li>Use old ideas to create new ones</li> <li>Combine parts to make (new) whole</li> <li>Generalize from given facts</li> <li>Relate knowledge from several areas</li> <li>Predict, draw conclusions</li> </ul>	Design, Formulate, Build, Invent, Create, Compose, Generate, Derive, Modify, Develop, Integrate

*Prof. Raghavendra L presenting on the occasion on FDO AICTE Exam Reforms Day-2 on Blooms Taxonomy*

### Day 3:

**Session 1:** From 10:00 am to 11:30 am,

**Resource Person:** Prof. Md. Nadeem, Asst. Prof., Dept. ME, ATMECE, Mysuru.

Prof. Chethan S, Asst. Prof., dept. ME, ATMECE, Mysuru.

**Topics Covered:** Use and Writing of Assessment Rubrics, understanding task description, Scales, dimensions and descriptors, developing rubrics, examples of Rubrics, Bringing about Changes in lab experiments, Categorisation of experiments, Reforms in Laboratory experience.

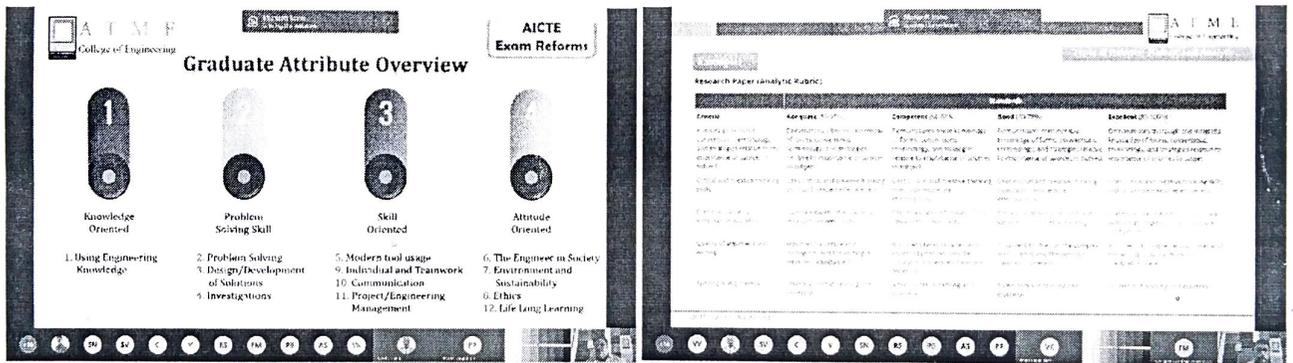
**Department of Mechanical Engineering**

**Session 2:** From 2:00 noon to 1:30 pm

**Resource Person:** Prof. Chethan S, Asst. Prof., dept. ME, ATMECE, Mysuru.

Topics covered: Improving Structure and Quality of Assessment, Assessment Strategy for OBE, Innovative Educational experiences to teach and assess, Assessing Higher order abilities and Professional skills.

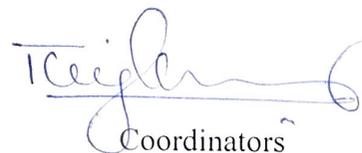
Valedictory function was held immediately after the second session, Participants were asked to give their feedback on the FDP and few of them expressed that it was a useful one and thanked the organising committee for organising it in a very good manner. Prof. Devaraj MR, Assoc. Prof., Dept. of ME rendered Vote of thanks. And all participants were requested to fill the feedback form in google forms, upon submission of the same they were issued the e-certificate.



*Dr. Chethan S and Dr. Md. Nadeem M presenting on the occasion on FDP AICTE Exam Reforms Day-3 on Assessment Rubrics*

**Feed Back & Inference:**

Feed back forms are attached along with the report for the reference. It is found from the feedback for all the three days on the FDP on AICTE Exam Reforms that more than 70% of the participants felt that the content of the FDP Covers contemporary topics/ issues related to Examination reforms need to be Inculcated in our Education System, and the Program is well Structured and objective of the FDP met effectively.



Coordinators

(Prof. Thejkumar J & Prof. Pavan Kumar KP)



### Department of Mechanical Engineering

#### You Tube Links of the videos @ ATMECE official:

Day1: Session1: <https://youtu.be/dpqxWT9AYjQ>

Session2: [https://youtu.be/yRYU7\\_DLvHw](https://youtu.be/yRYU7_DLvHw)

Day2: Session1 & 2: <https://youtu.be/3V4JG2FK3Jo>

Day3: Session1: <https://youtu.be/yymQ9--xBf8>

Session2: [https://youtu.be/pDh0X\\_Vc814](https://youtu.be/pDh0X_Vc814)

#### Google drive Links for the FDP Resources:

<https://drive.google.com/drive/folders/10aVyrlpJpXDCKX8cE305pqs-KtY3-NC5?usp=sharing>

*A. Pallavi*

**H.O.D.**

Department of Mechanical Engineering  
ATME College of Engineering, Mysuru



## Department of Computer Science & Engineering

**Organizing Department Name:** Department of Computer Science & Engineering.

**Event type:** Inter College.

**Title of the event:** “Network-king”

**Date:** 05/04/2021 and 09/04/2021

**Venue:** Department of Computer Science & Engineering, ATMECE.

**Resource person/Guest: Name:** Mr Anil Kumar and Mr Kiran B,

**Designation:** Assistant Professor

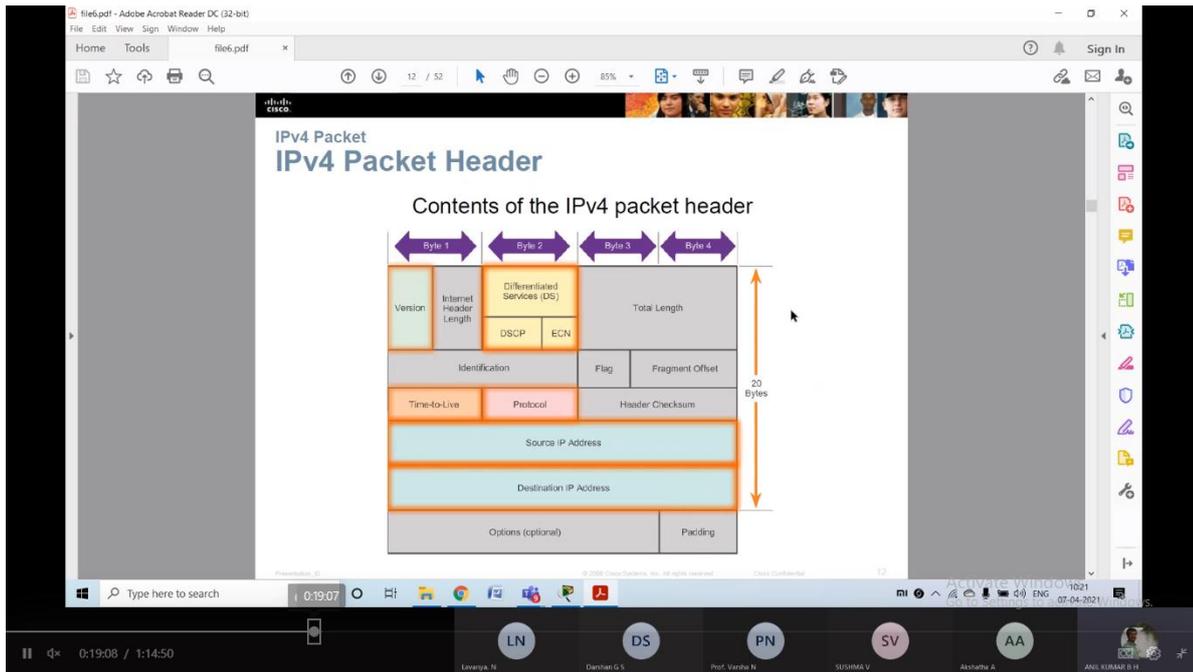
**Event Description:** Conducting five days of FDP on “Network-king” in CS Dept. This FDP is targeted to faculties of various diploma colleges.

**Objective:** This course is designed to impart knowledge about detailed knowledge of Computer Networks, various protocols used in Communication, Managing and configuring Cisco Switches and Routers and various WAN technologies.

The Department of Computer Sciences Engineering had signed MoU with CISCO Systems, Bangalore on 21-01-2018. The CISCO center of excellence on Advanced Networking available in the department provides world class networking infrastructure. The faculty members have been constantly trained by CISCO Networking Academy, to offer the latest industry relevant networking curriculum. The Department is offering the certification course CCNA (Cisco Certified Network Associate) to the students since

The course provides experience to the faculties on networking concepts for 5days. Faculty in charge are Anil Kumar B H, Kiran Kumar B.

## Department of Computer Science & Engineering



**Outcome:** After completion of the course the faculties will be able to manage network for an Organization.



**A T M E**  
College of Engineering  
Department of Computer Science and Engineering



**"NETWORK-KING"**

Date: 5<sup>th</sup> to 9<sup>th</sup> April 2021  
Venue: Department of Computer Science & Engineering, ATMECE.

**Resource Persons**  
Anilkumar BH & Kiran B  
Certified CCNA Trainer  
CISCO Center of Excellence, ATMECE.  
Mob : 9916732611 / 8095620284

**Event Type:**  
Inter College

**Title of the Event:**  
FDP on "CCNA-Module I"

**Mode of Conduction:**  
Online / Offline - MS Teams  
(Based on Faculty Request)

**Timings:**  
10:00 AM to 1:00 PM or 30 Hours

**Event Description**  
Conducting five days FDP on "CCNA-Module I" in CS Dept. This FDP is targeted to Faculties of Diploma colleges and in-house faculty members.

**Course Content**  
This module introduces the architecture, structure, functions, components, and models of the Internet and computer networks. The principles of IP addressing and fundamentals of Ethernet concepts, media, and operations are introduced to provide a foundation for the curriculum. By the end of the course, you will be able to build simple LANs, perform basic configurations for routers and switches, and implement IP addressing schemes.

Everyone will get participation certification and as well as Module I Certification from CISCO.

**Registration Link:**  
[https://docs.google.com/forms/d/1XTYIHeDu9kk\\_SBWTFEpc5MuWfcdN4Fr3E\\_6IhdOKWvg/edit?usp=sharing](https://docs.google.com/forms/d/1XTYIHeDu9kk_SBWTFEpc5MuWfcdN4Fr3E_6IhdOKWvg/edit?usp=sharing)

Certificate has been issued for the participates.

Dr. Srinivasa K  
Professor and Head

Date: 26.9.2020

## Report on International Webinar on Tolerance Stack-up Analysis

International webinar conducted on **25<sup>th</sup> September 2020** through online on the topic **“Tolerance Stack-up Analysis”**. This webinar was organized with the intension to expose the **final year students (2020-2021)** on importance of tolerance providing to various mechanical components and its effect on manufacturing cost and the range of tolerance recommended to optimize/ control the cost of production of various components etc.

The invited speaker **Mr. Vinayak Naik**, addressed our final year students with the above said topic and expressed best wishes to Final year students at the end of the session.

Mr. Devaraj M R welcomed the speaker, Prof. and Deans, Faculty and all the participants to the webinar. Mr. Yashwanth N rendered the vote of thanks to Speaker and all participants.

This event was coordinated by:

Mr. Devaraj M R,

Dr. Mohanakumara K C

Mr. Yashwanth N and

Mr. Niranjana Kumar V S.

### Speaker:

**Mr. Vinayak Naik**

Designation: Sr. Engineer

Email: [metalsanaik@gmail.com](mailto:metalsanaik@gmail.com)

**Address: Midea America Research Center**

**2700 Chestnut Station Ct.**

**Louisville, KY 40229, USA**

**International Webinar**

**Topic: Tolerance Stack-up Analysis**

**Date: 25<sup>th</sup> September 2020**

**Time: 3.00 PM**



To,  
The Principal  
ATMECE, Mysuru

Date: 25.06.2019

Respected Sir,

Through, **Head of the Department**, Department of Mechanical Engg.

Department of Mechanical engineering is planning to conduct workshop on “**Art of Counselling**” from **2<sup>nd</sup> July to 9<sup>th</sup> July 2019** for all staff members of ATMECE with the intension to explore the different ways, methods and approaches through which counseling to conduct to the student fraternity which in turn helps and support to the students for their overall development including their academic performance.

Hence requesting you to kindly give permission to conduct this Six Days Workshop from 2<sup>nd</sup> July to 9<sup>th</sup> July 2019.

Thanking you sir.

Yours faithfully

*(Signature)*  
25/6/19  
(DEVARAJ MR)

*Forwarded to the principal for kind approval.*

*C. Pallavi*  
25/6/2019

*Approved*

*(Signature)*  
25/06/19

# Report on Art of Counseling

Department of Mechanical Engineering organised Six Days Workshop on **Art of Counselling** between 2<sup>nd</sup> and 9<sup>th</sup> July 2019. This workshop was conducted in view of enhancing the knowledge of counselling the students for the purpose of assisting them effectively with the intesion of their over all development.

In this connection department of mechanical engineering invited the eminent personalities as speakers from reputed counselling centres like Samadhana and Prassanna counselling centres. A famous psychiatry doctor C.R Chandrashekar from samadana counselling centre who served at NIMHANS for more than three decades and his team members serving as couselfors were invited for this workshop as speakers. **Dr.C.R. Chandrashekar** written more than 250 books on art of counselling in kannada and english, counselled more than 300 claints who need counselling for their issues. Chandrashekar handled several different cases and provided solutions and cured their problems persisting and helped to lead happy and peaceful life. Presently serving as chief counsellor at samadhana counselling centre bangalore.

**Dr. C. R.Chandrashekar** inagurated the workshop on 2<sup>nd</sup> July 2019 who was the chief guest of the function. **Dr.Basavaraj L Principal**, expressed his concern and significance of counselling. **Dr.Rathnakar G Prof. and Head**, Department of Mechanical Engineering welcomed the dignitaries and all participants.**Mr.Devaraj M R Associate Prof.** compared the program and invocation performed by **Ms.Keertana Asst. Prof.** department of Computer Science and Engg.

The chief guest, in his keynote address expressed the importance of counselling particularly for newer generation at schooling and college level. Clean and healthy society is very much essential to live comfortably and peacefully by having a sound body and mind. Proper counselling is one of the effective way to shape the student's mind to focus on their goal in a right manner.and to shape young minds for one who lead balanced life.

He urged the teaching fraternity to learn more and more counselling skills and utilize those skills for needy students for their overall development and make them as an asset to the nation.

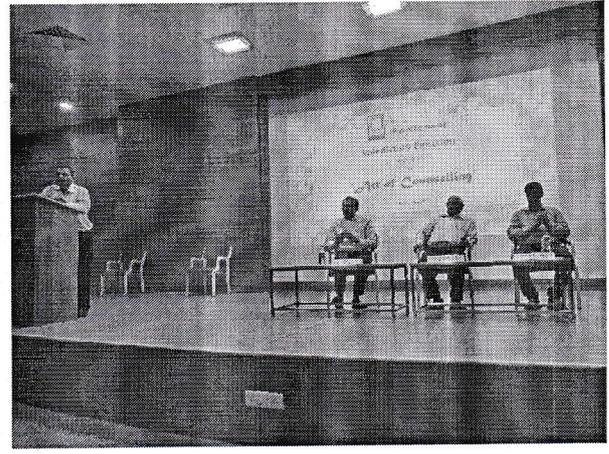
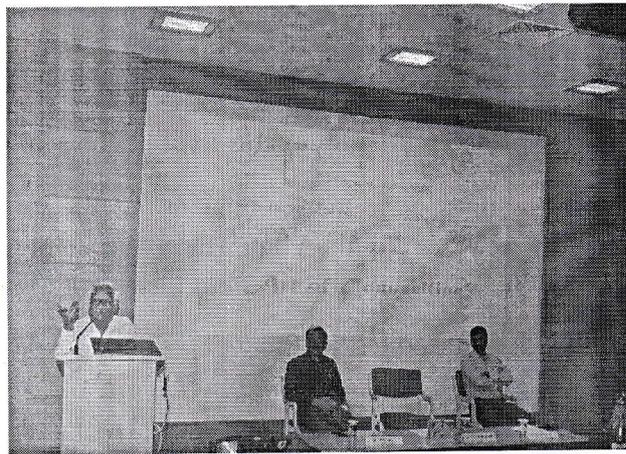
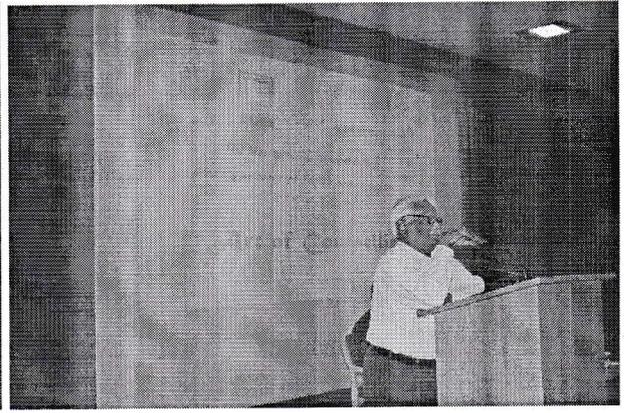
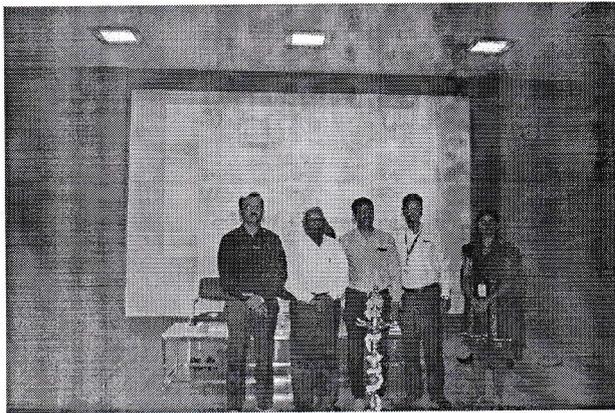
The chief guest, expressed his view while addressing the gather, that the proper and effective counselling particularly at schooling and college level is essential to have better and healthy society.

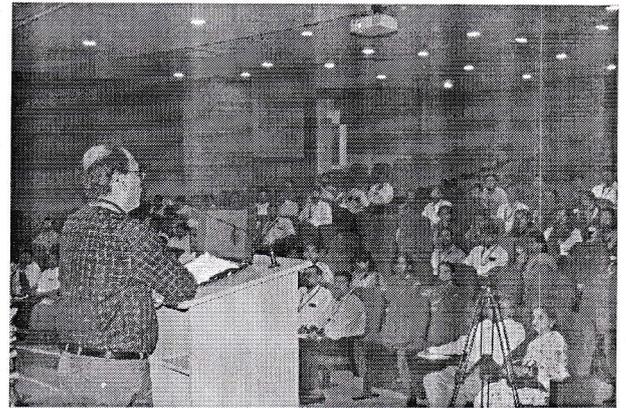
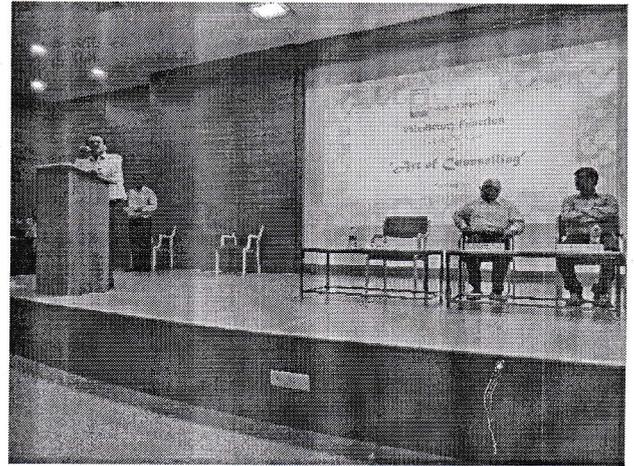
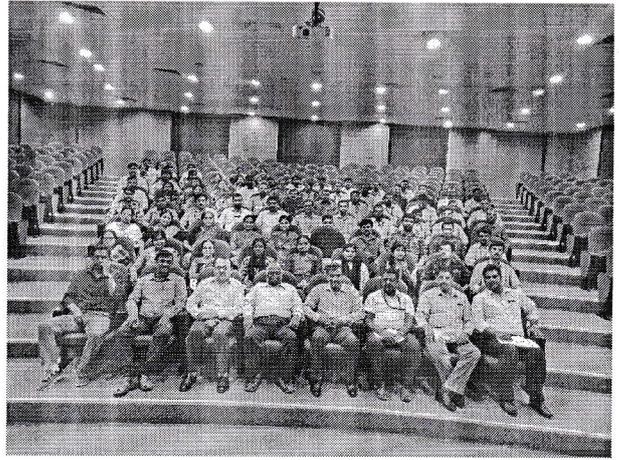
Another speaker **Mr. A.S. Ramachandra** from Samadana counselling centre delivered lecture on Emotional Problems in young, Anxiety, fear, depression, anger and stress management in a **Day-2** session. He emphasized on requirement of proper counselling particularly the students who are in examination related anxiety, fear and stress. He said counselling not only reduces their fear, stress and anxiety but at the same time improves their confidence level and boost up their potential to tackle such problems.

Another speaker **Mrs.Lalitha Rao**, in a **Day-3** session spoke about Addictions: smoking, drinking, doping, mobile prevention and treatment causes and prevention of suicide.

The speakers **Mr.A.S. Anand** and **Mr.Ranganath Rao** delivered a lecture on Principles and Practice of Counseling in a **Day-4 and 5** sessions. Shared their experience of handling the clients. The highlighted that the problems are unique from person to person or from student to student consequently methods of handling such cases would be different. Also open ended questions extract more and more informations from counselee and yields better result he added.

**Dr. C.R.Chandrashekar** famous psychiatry spoke on Relationship, sexual issues and positive health in the **day-6** and last session and concluded the six days Art of Counseling program after giving the questionaries to audience which is followed by discussions on the same. During the valedictory function prizes were distributed to the top five best scorers followed by certificates were distributed to participants. The program ended after expressing thanks to all dignitaries and participants.





## Report on Training the Trainer Programme at ATME College of Engineering, Mysuru

A One week programme “**Training the Trainer**” on Aptitude, Verbal and Reasoning Skills was organized by the Department of Training and Placement, ATME College of Engineering, Mysuru from 27<sup>th</sup> to 31<sup>st</sup> January, 2020. Faculty members from various departments participated in the event.

Guest of Honour In-Charge Principal, **Dr.Parthasarathy L**, Professor and Head, Department of Electrical & Electronics Engineering addressed the participants and said it is an unique Faculty development Programme where In-House Faculty members get trained and subsequently train the students and make them industry ready. Further, he said each company has its own criteria and requirement and to cater its needs, it is the role of a Faculty member to deliver, evaluate and transform individuals so that they can get employed.

Resource Person **Mr.Diwakar Ramachandra** started the session on Quantitative Aptitude. Spread over 3days, he covered the topics on Percentages, Ratios and Proportions, Permutation and Combination, Profit and Loss, Alligation or Mixture, Time and Work, Speed, Time and Distance, Data Interpretation etc for about 18Hours. He explained the methods for solving the problems and reducing the time speed incorporated by students during placement drives.

In the next 2 days of the session, He covered topics on Reasoning and verbal skills and explained Analysing Arguments, Statements and Assumptions, Coded Inequalities, Blood Relationship, Order and Ranking, Synonyms & Antonyms, Reading Comprehension etc for about 12 hours. Pre and Post Training assessment Test was conducted to evaluate students.

In the valedictory, Dr.Parthasarathy L, Professor and Head, Department of Electrical & Electronics Engineering, Resource Person Mr.Diwakar Ramachandra ,Training and Placement Officer Mr.Deepak MVS, Event Coordinator Mr.Shreeshayana R were present. Certificates were distributed to the participants.



**Fig: Inauguration**



**Fig: Participants of the Program**

## ABOUT VIRTUAL LAB

Virtual Lab is an initiative of Ministry of Human Recourse Development (MHRD) initiative under the National Mission on Education through ICT.

It started with the vision of *“To enrich the learning experience through experiential learning of science, engineering and technology in a virtual learning environment at preferred pace, place and period (time).”*

Physical distances and the limited availability of resources often put restrictions on conducting experiments especially when they involve sophisticated instruments. Virtual Labs have been designed to provide remote access to labs in various disciplines of Science and Engineering.

These Virtual Labs cater to students at the undergraduate level, post graduate level as well as to research scholars. Virtual Labs enable the students to learn at their own pace and enthuse them to conduct experiments. Virtual Labs also provide a complete learning management system where the students can avail various tools for learning, including additional web-resources, video-lectures, animated-demonstrations and self-evaluation.

### **The Objectives of Virtual Labs are:**

- Setup state of art virtual experimentation facilities (simulation) in selected areas of engineering & science
- Setup state of art experimentation facility in selected areas of Engineering and Science education which can be used both through remote access and on site experimental work
- Make these facilities available to all the educational institutions and students 24 X 7

### **Salient features**

- Virtual Labs will provide the students to understand the Modelling process of a real-world system into an approximate version.
- Virtual labs will allow the students to Remotely trigger an experiment in an actual lab and get the result of the experiment through the computer interface.
- Virtual Labs are more realistic way of learning the subjects as it provides the technical input through audio and video streaming of an actual lab experiment and equipment.

## **About ATME**

ATMECE, an ISO 9001-2015 certified Institute, is founded by a group of likeminded technocrats in 2010. The Campus is spread over 20 acres of green area with state of the art laboratories, a cluster of seminar halls & auditorium with all modern gadgets, Library, central computing facility etc. ATME Mysuru, not only offers facilities for the students to have overall growth, vision for the development and accountability for the future, also it provides highly excellent and dedicated faculties to cater the needs of the students.

Today, ATME is considered as one of the best Engineering Colleges in Mysuru, which remains on the top by the academic performance and also by the significant achievements of the students at the University level.

ATME College of Engineering is accredited by NBA for Civil Engineering, Electronics & Communication Engineering, Electrical and Electronics Engineering & Mechanical Engineering Courses for the academic year 2019-20 to 2021-22.

### **ATME a Nodal Centre of Virtual Lab NITK Surathkal.**

ATME College of Engineering is recognised as a nodal centre of Virtual Lab NIT-Karnataka, Surathkal. Being a Nodal Centre under the guidance of NIT-K, Surathkal, ATME College of Engineering can organise training sessions for students and faculty members on Virtual labs.

Also by being a Nodal Center, ATME College of Engineering can organize workshops as an outreach activity of Virtual Labs. Faculty members and students from nearby institutes may also be invited to attend the workshop or training programme.

## **One-Day Workshop on VIRTUAL LAB**

As an outreach activity of Virtual Labs, ATME College of Engineering has organised one-day workshop on **VIRTUAL LABS** on **26<sup>th</sup> October 2019**.

In consultation with NITK-Surathkal, the one-day workshop was split into two sessions.

**Session-I:** 10.00 a.m. to 12.30 p.m. for Faculties of Various Engineering Disciplines.

**Session-II:** 2.00 p.m. to 4.30 p.m. for Students of various Engineering Disciplines.

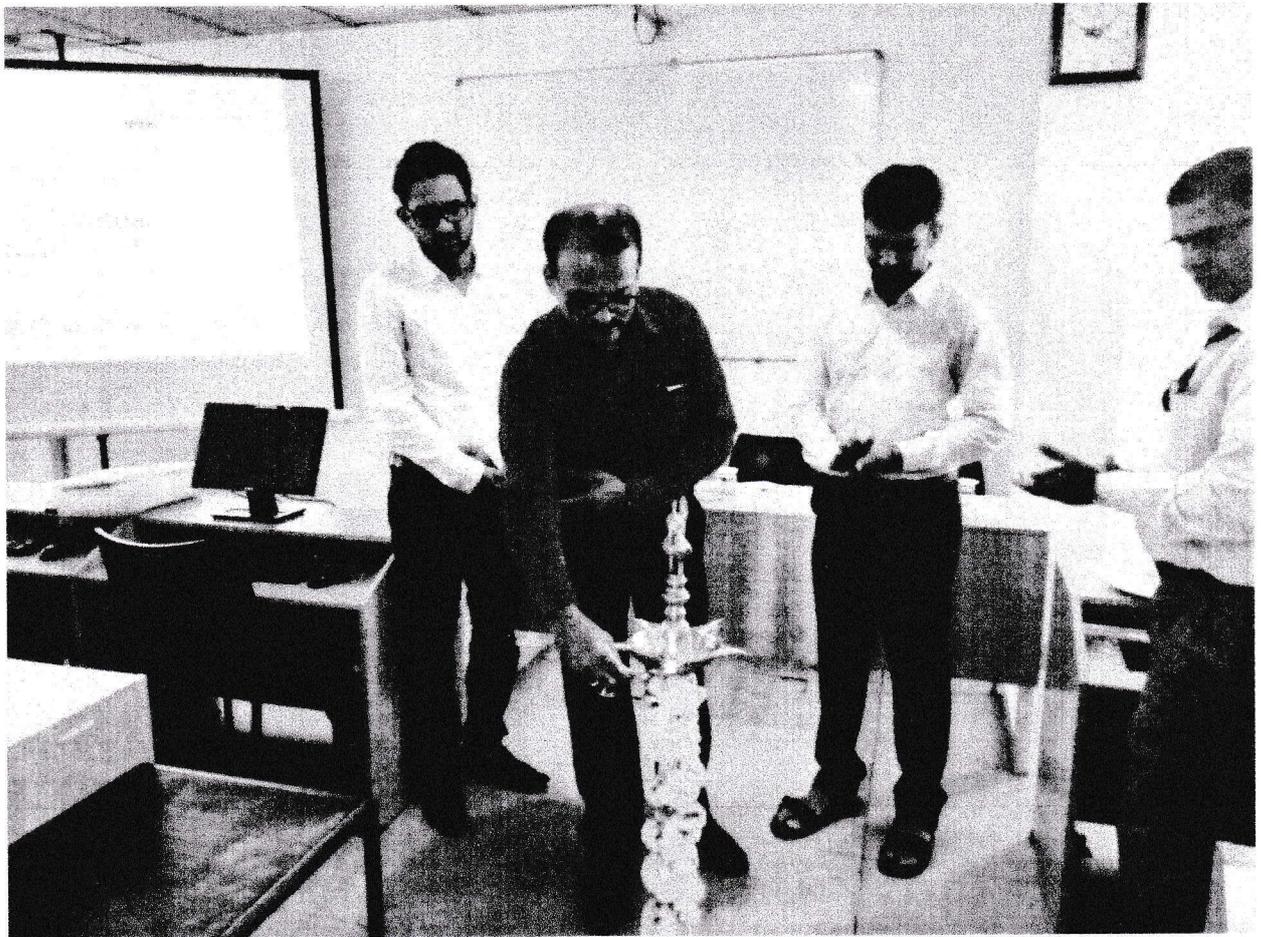
### **Session –I:**

- Registration for the participants started at 9.30 a.m at the venue: Computer Lab-I, Admin Block. 25 Faculties from various Engineering Colleges and 60 faculties from ATMECE were registered for the Workshop.
- The program is inaugurated by Dr. Basavaraj L, Principal, ATMECE and the resource persons for the Workshop Mr. Nishan B Shetty and Mr. Aquib A Nadaf, NIT-K, Surathkal were the chief guests.
- In his Inaugural address Dr. Basavaraj L, appreciated the efforts taken by all the participating Institutes in developing Virtual Lab under one roof. Also he opined that, the virtual Lab will help the students in better understanding of the topics learnt and experiments conduct in the laboratories.
- Later the session was taken over by the resource persons. At the beginning the resource persons briefed about the concept about the virtual labs and the advantage of virtual lab.
- Since the faculties of various engineering disciplines were participated in the workshop, the mechanical and civil engineering labs were discussed first. Later in the session circuit branches like Electrical, Electronics and Computer Science Engineering labs were discussed.
- Also the faculties are allowed to use Virtual Lab Tour and conducted several experiments on their own. The doubts upon the using of Virtual labs were clarified by the resource person.
- At the end of the first session, NIT-K RT-Lab (Remote Trigger Lab) is also been demonstrated.
- Valedictory function was organised after the session got over. Principal Dr. L Basavaraj felicitated the resource persons. Certificates to participants were distributed.
- Mr. Thejkumar J, Nodal Centre Coordinator, Virtual Lab presented the vote of thanks.

## Session –II:

- Session-II is resumed after the lunch break and started at 2.00 p.m.
- The second session was meant for the Technical Staffs and for the students of various engineering streams.
- The resource persons, briefed about the importance and advantages of virtual labs and the benefit the students can get by using virtual labs.
- The session was started with theoretical inputs and students were allowed to use virtual lab tour in the systems.
- Students carried out several experiments of their interests and domain specialization.
- Also RT lab demonstration was given at the end of the session.
- Certificates were distributed to the participated staffs and students and Workshop is concluded at 4.30 p.m

## Photo Gallery:



### **Inauguration of Virtual Labs Workshop.**

(L-R: Mr. Nishan B Shetty, Dr. Basavaraj L, Mr. Aquib A Nadaf, Mr. Devaraj M R)



Date: 01.10.2019

To,  
The Principal  
ATME College of Engineering  
Mysuru-570028

Respected Sir,

**Subject: Permission to conduct a one-day workshop on VIRTUAL LAB reg.**

ATME College of Engineering being a Nodal center of Virtual Lab NITK Surathkal, we are planning to conduct a one-day workshop on VITUAL LAB in association with NITK Surathkal on 26<sup>th</sup> OCTOBER 2019.

The workshop is focused primarily on understanding the concept of Virtual Lab and gaining hands on experience on the same. The workshop is open for both the students and faculties of all engineering discipline from various engineering colleges in and around mysuru. Three resource persons sharing their knowledge are from NITK, Surathkal.

The estimated expenditure is attached here with for your kind information. We request you to consider the same and permit us to conduct the said workshop.

Kindly do the needful at the earliest and help us to conduct the program.

Thank you Sir.

Yours Faithfully,

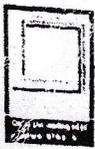
*Thejkumar J*

Mr. THEJKUMAR J

*Approved to the Honble Chairman  
in kind information and approval  
Release of 15K to meet expenditure to  
conduct one-day workshop on virtual lab in association  
with NITK*

*[Signature]*  
01/10/19

*[Signature]*  
4/10



Date: 03-02-2020

**CIRCULAR**

A one day workshop on OBE and NBA accreditation is arranged for the Faculty members of all Departments on 05-02-2020 at 10 am. All are here by advised to attend the same without fail.

TAP Dept  
Venue: ~~College Auditorium~~

*[Signature]*  
Principal

Topics covered in the workshop;

- 1) Overview of OBE, Vision, Mission and PEOs.
- 2) Framing of quality COs and CO-PO mapping.
- 3) Computation of CO & PO attainment.
- 4) Best practices in TLP and use of modern tools in TLP.
- 5) Importance of quality project work.
- 6) Course files and other files.
- 7) Professional Body activities and Internship.
- 8) Review of SAR.
- 9) Research and Research funding.

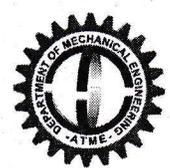
*To attend the program  
Compulsorily. Attendance will be monitored.*

*A. Pallavi  
03/2/2020*

*S. Sankar Mohan*

*[Handwritten initials and signatures]*

Adler 2007 2/20/20



**A Report on one day workshop on OBE and NBA Accreditation at ATMECE**

As per honorable Principal's direction and with the purpose of disseminating the information on OBE and NBA accreditation which was gained by the faculty members who have attended a TEQIP sponsored five-day program at GSSSIETW, Mysuru a One-day workshop was organized by Department of Mechanical Engineering.

Staff members from all departments have attended the workshop which was conducted at Training and Placement Cell on 06-02-2020 at 10 am. During inaugural function honorable Principal stated the purpose of the workshop which is to enrich faculty's knowledge about OBE and NBA accreditation and asked all participants to actively participate in the workshop. Workshop started with the Keynote address by Dr. Ratnakar G, Prof and Head, Department of Mechanical Engineering. In his address Dr. Ratnakar briefly explained about importance of OBE and NBA certification. He has also presented the outline of the program with session wise details.

In the subsequent sessions Mr. Ravikumar S, Thejkumar J, Chandrashekar CS and Dr. Mahesh Lohith gave presentations on the below mentioned topics

- 1) Overview of OBE, Vision, Mission and PEOs.
- 2) Framing of quality COs and CO-PO mapping.
- 3) Computation of CO & PO attainment.
- 4) Best practices in TLP and use of modern tools in TLP.
- 5) Importance of quality project work.
- 6) Course files and other files.
- 7) Professional Body activities and Internship.
- 8) Review of SAR.
- 9) Research and Research funding.

It was challenging to cover a five day program information in one day. However important topics are covered and few doubts of participants were cleared. Dr. Ratnakar finally concluded the workshop by rendering the vote of thanks.

A report of the five Day program at GSSSIETW, copy of the PPT slides of one-day workshop at ATMECE, attendance and feedback report are attached herewith for detailed information.

Date:10-02-2020

*A. Ratnakar*  
HOD 14/02/2020

Department of Mechanical Engineering.



## Press Report

### **National Level One Week Online Faculty Development Program on “Contemporary Scenario in Power Systems”**

The Department of Electrical & Electronics Engineering, ATME College of Engineering (ATMECE), Mysuru had organized a National Level One Week Online Faculty Development Program (FDP) on “Contemporary Scenario in Power Systems” from 25<sup>th</sup> to 30<sup>th</sup> July 2020 to encourage enthusiastic Researchers and Academicians. The Resource persons were eminent Academicians, Researchers and Industry experts of prestigious organizations from India and USA. The objective of the FDP is to discuss holistically the concurrent issues on Electric Power System operation.

**Dr. L Basavaraj, Principal, ATMECE** presided over the function and said that the COVID-19 pandemic situation has created a very good opportunity for Researchers and Academicians to interact with the Resource persons directly through virtual online platform. He also mentioned that he is glad that eminent personalities from PAN India and abroad are participating as Resources persons in this FDP.

**Dr. Parthasarathy L, Organizing Committee Chairman, Professor & Head, Department of Electrical & Electronics Engineering,** welcomed all the Resource Persons and the participants from various parts of India and said ATME college of Engineering believes in imparting holistic education considering student’s community as the focal point of the learning process.

**Dr. Ravi K N, Professor & Head Department of Electrical & Electronics Engineering, Saphagiri College of Engineering, Bengaluru, Dr. Pradipkumar Dixit, Professor & Head Department of Electrical & Electronics Engineering, MSRIT, Bengaluru, Dr. Panduranga Vittal K Professor and Dean (AA&IR), Department of Electrical & Electronics Engineering, NITK, Surathkal, Dr. Santoshkumar H, Professor, School of Electrical and Electronics Engineering, REVA University, Bengaluru, Dr. Alok Kumar Bharati, PhD Intern, Pacific Northwest National Laboratory (PNNL) from Iowa State University (ISU), USA, Mr. B T Prakash Kumar, Ex. Chief Engineer and Director Technical, HESCOM, Dr. Ankit Singhal, Power System Research Engineer, Washington, USA, Dr. Dattatraya N Gaonkar, Associate Professor, Department of Electrical & Electronics Engineering, NITK-Surathkal, Dr. G H Kulkarni, Professor, Department of Electrical & Electronics Engineering, Jain College of Engineering, Belagavi, Mr. Alfred Manohar, Director and Business Development Strategy, Esyssoft Technologies, Bengaluru** were the resource persons.

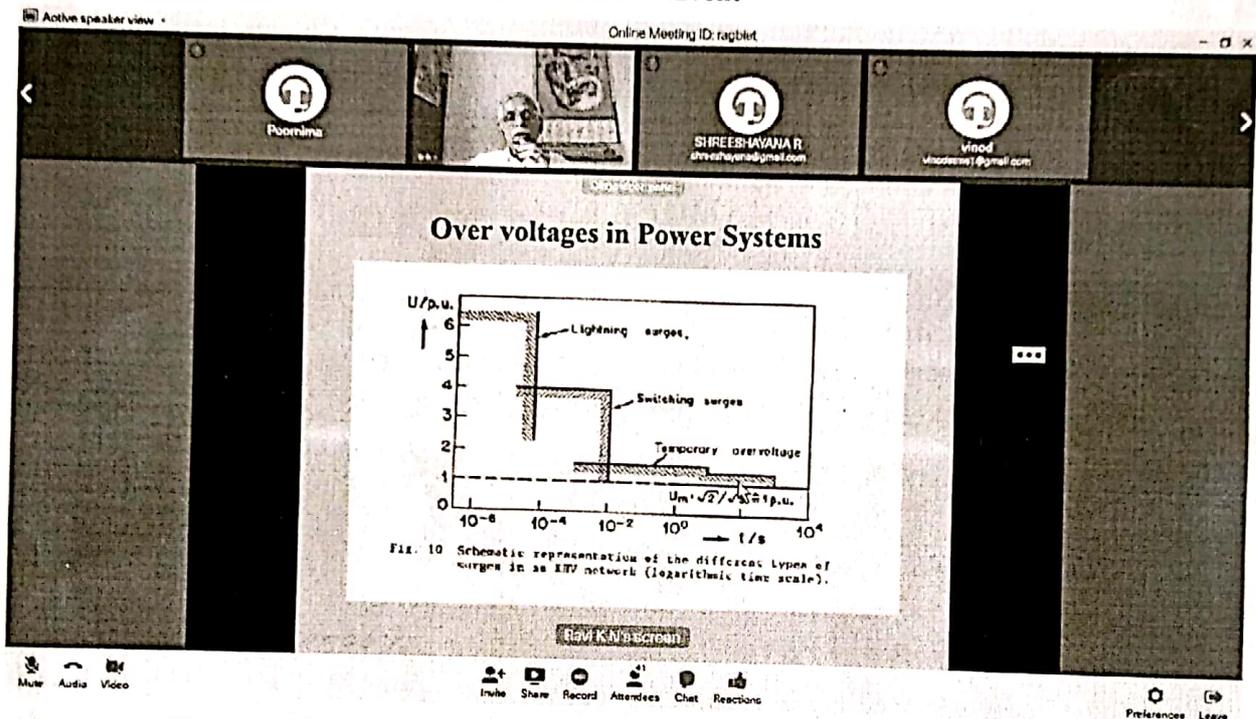
Performance of External insulation in Power transmission system and usage of polymeric insulator, Volt/Var Control in Distribution Systems using DERs and Role of T&D Interactions in Long-Term Voltage Stability under High Proliferation of DER, Smart Grid Operations and Control, Power System Earthing, Automated Metering Infrastructure etc were some of the key topics delivered during the week-long event. The FDP program received an overwhelming

## Department of Electrical and Electronics Engineering

response from participants across the PAN India and there were exchange of ideas on the issues concerning the present power system operation.

In the valedictory session, FDP report was presented by Dr.Parthasarathy L. Online participants, Resources Persons, Associate Professor & Program Convener Mr.Raghavendra L and Faculty members were present.

### Photos of the FDP Event



Dr. Ravi K N, Professor & Head Department of Electrical & Electronics Engineering, Sapthagiri College of Engineering, Bengaluru during the session

## **Report**

### **Five Day Faculty Development Program (FDP)**

**On**

**“Advanced Control Theory and LaTeX”**

**15<sup>th</sup> to 19<sup>th</sup> July 2019**



**Dr. L Basavaraj**  
Organizing Chair



**Dr. Mahesh P K**  
Chief Coordinator



**Dr. Yathisha L**  
Convener & Internal Speaker

### Distinguished External Speakers:



Dr. Sudarshan Patil  
Kulkarni  
JSS Science &  
Technological  
University



Dr. Harsha Simha  
Indian Institute of Space  
Science & Technology,  
Thiruvananthapuram,  
Kerala



Dr. Shreesha Chokkadi  
Manipal Institute of  
Technology,  
Manipal  
University

### Contents Covered in the FDP:

- Introduction to Advanced Control System
- Modeling of physical Systems
- Linear Control Theory
- Classical Control Theory
- Optimal Control Theory
- Design of Controllers for stable and unstable process
- Introduction to Non Linear Systems
- Modeling and Stability Analysis of Non Linear Systems
- Introduction to LaTeX with TEX Commands
- Journal Articles using LaTeX (formats IEEE, Springer, Elsevier, etc.)
- Thesis/Document Writing using LaTeX

### Outcome from the FDP:

**The participants attended for FDP were:**

- Able to model the physical system as a mathematical representation.
- Design and simulate the basic control algorithms for the stable and unstable processes.
- Design of Advance control algorithms for the complex processes.
- Able to implement the advance control algorithms on the physical system.

### **List of Colleges/Universities Participated in FDP:**

1. KLE Institute of Technology, Hubli.
2. Manipal Institute of Technology, Manipal University.
3. PES Institute of Technology, Shivamoga.
4. NIE Institute of Technology, Mysuru.
5. JSS Science and Technology University, Mysuru.
6. GSSS Institute of Technology, Mysuru.
7. Vidya Vardhaka College of Engineering, Mysuru.
8. Indian Institute of Space, Science and Technology, Kerala.
9. ATME College of Engineering, Mysuru.

### **Financial Sponsors of FDP:**

Seikomec Automation  
Solutions Pvt. Ltd.  
Mysuru

Core4 Engineers  
Mysuru

Day 1: 15/07/2019

Speaker: Dr. Sudarshan  
Patil Kulkarni



Dr. Yathisha L  
introducing the speaker  
to audience and brief  
about the overview of  
five Day FDP.



The speaker brief about the introduction to advanced control theory and explains the concept of mathematical model of any physical systems (Electrical & Mechanical) in the morning session.



In the afternoon session, speaker shows some videos related to control design from space and technology. Later, he explains the concept of state space model and its similarity transformations to the participants.



Day 2: 16/07/2019  
Speaker: Dr. Shreesha Chokkadi



**Dr. Yathisha L introducing Speaker to the Audience (Left Side).**

**Speaker delivering the Lecture to the Audience (Right Side).**



In the morning session, speaker explains the basic concepts needed in the design of control system with good examples and he also explains the time domain specifications by concluding a statement that if you concentrate only on one of the control parameter that may effect to other parameters in the control system. Hence, to concentrate all the parameters is necessary in the area of control system.



In the afternoon session, the speaker explains the concepts of stability with frequency domain approaches such as Root Locus, Bode Plots, Nyquist Plots, etc., with MATLAB Examples.

Day 3: 17/07/2019

Speaker: Dr. Yathisha L  
(Internal Speaker)

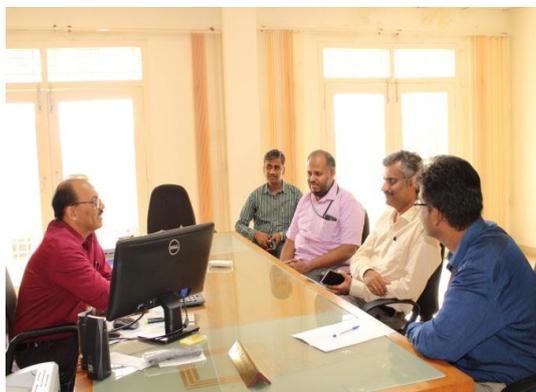


Speaker in the morning session explains the concept of optimal control theory with sufficient good examples. He also gives the comparison between classical control theory and modern control theory with taking simple RLC series circuit as example by constructing the state space model for the same. He also explains the Lyapunov stability theory for Linear Time Invariant Systems. A brief mathematical analysis is briefed to the audience for the better understanding of optimization techniques in control by taking Linear Quadratic Regulator (LQR) Algorithm as a standard tool example.



In the afternoon session, the speaker demonstrated the design of various optimal controllers for Aircraft state space model and simulated the same using MATLAB/SIMULINK software and compares the results with the same for the better understanding to the audience.

Day 4: 18/07/2019  
Speaker: Dr. Harsha Simha



Dr. Yathisha L introducing the speaker to the Principal (Left Side) and Audience (Right Side)



In the morning session, the speaker gives a brief introduction to Non Linear systems and he also explains how to convert Non Autonomous systems to Autonomous Systems with mathematical analysis. He also explains the basic mathematics required for the analysis of Linear and Non Linear Systems.



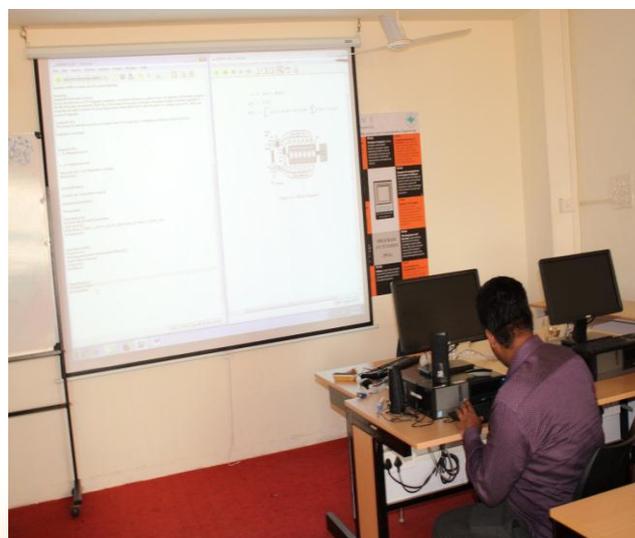
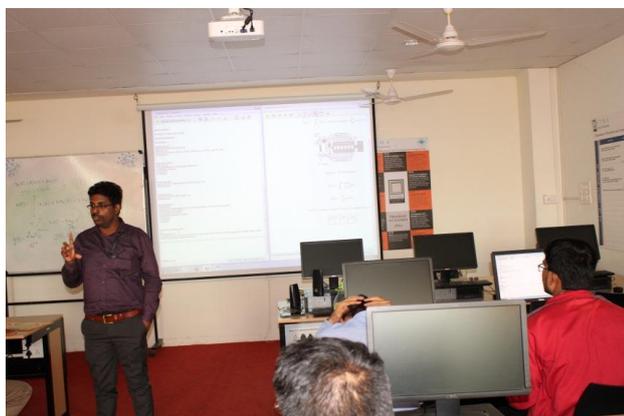
In the Afternoon session, the speaker explains the concept of stability analysis for Non Linear systems with sufficient mathematical equations such as equilibrium points.



Day 5: 19/07/2019

Speaker: Dr. Yathisha L  
(Internal Speaker)

The fifth day session is completely dedicated for “LaTeX”. In the morning session speaker gives brief introduction to Latex and its Tex Commands for figures, tables, equations, citations, list the table of contents, etc. In the afternoon session speaker demonstrated the sample report along with one IEEE standard paper in LaTeX template and also all the participants had executed the same.



### Distributions of Certificates to the Participants:



### Honoring to the Distinguished Speakers:



**Co-conveners:**



Mr. Girish M



Mr. Prajwalasimha S N

**Coordinators:**



Mrs. Shalini V S



Mrs. Harsitha N



Ms. Anupama Shetter



Mr. Manjunath K



Date: 26/08/2019

**To,**

The Principal  
ATME College of Engineering,  
Mysuru.

**From,**

Event Co-Conveners  
Asst. Professors  
Department of ECE

Through Head of the Department

Respected Sir,

**Sub:** Regarding the expenditure submission of Five day FDP on "Advanced Control Theory and Latex".

With respect to the above subject, we would like to bring to your kind notice that, the FDP was conducted successfully from 15<sup>th</sup> to 19<sup>th</sup> July 2019. The event got sponsor of amount 10,000 Rs/- sponsors from Seikomec Automation and Core4 Engineers Pvt. Ltd companies. Total amount incurred for the FDP is **Rs. 38,400/-** and total expenditure amount is **Rs. 38,501/-**. Here with this we have attached the balance sheet of the above event for your perusal.

Thanking you,

*forwarded to principal Sir for kind appraisal*

*Onhl*

Yours faithfully,

Mr. Girish M

Mr. Prajwala Simha S N *[Signature]*

*[Signature]*  
26/8/19.

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Department of Electrical and Electronics Engineering

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Press Report

**Three Days Zonal Level Faculty Development Programme (FDP) on “GNU Linux Operating System in Electrical and Electronics Engineering”**

Department of Electrical and Electronics Engineering, ATMECE, Mysuru had organised a **Three Days Zonal level FDP on “GNU Linux Operating System in Electrical and Electronics Engineering”**, from 10<sup>th</sup> to 12<sup>th</sup> January, 2019. **Prof. R S Ananda Murthy**, Associate Professor and former Head (Retd), JSS Science and Technology University, Mysuru was the **Chief Guest and Resource person**.

**Guest of Honor, Dr.L Basavaraj, Principal, ATME College of Engineering, Mysuru** said majority of us are familiar with windows operating system and it is not easy to switch over to other platforms instantly. The major benefit of Linux operating system will be for faculties who are pursuing PhD, which will help in safeguarding key documents. He advised participants to utilise the knowledge gained effectively.

**Dr.Parthasarathy L, Head, Department of Electrical and Electronics Engineering** presided and said it is our job to upgrade our knowledge. Technology is changing and when it comes to computing systems it is imperative to change operating systems. It is important to reduce investment on licensed softwares. GNU being a new dimension of operating system will help us in learning perspective. He advised all the participants to take forward the skill-set gained in the FDP.

**Prof. R S Ananda Murthy** started the session on Day 1 and explained the philosophy of licensed software and explained the process to install and use GNU Linux Operating System and additional application software required for teaching Electrical and Electronics Engineering.

On Day 2 he explained how to use GNU Linux for conducting experiments in Digital Signal Processing Lab, Control Systems Lab and for Electrical CAD.

Day 3 he explained various open source tools like i-test, Q Electrotech, jabref, FET, Octave, inkscape, Scilab, LATEX etc and the process of utilising the tools.

In the valedictory, Resource Person, Prof. R S Ananda Murthy, Dr. Parthasarathy L, HoD, Mr.Santhosh Kumar R, Mr.Rajesh K S, Assistant Professors and Event Coordinators, Faculty of the department were present. Certificates were distributed to the participants.



Dr. PARTHASARATHY L.  
Professor and HOD  
Dept. of Electrical & Electronics Engineering,  
ATME College of Engineering, Mysuru

## Department of Electrical and Electronics Engineering



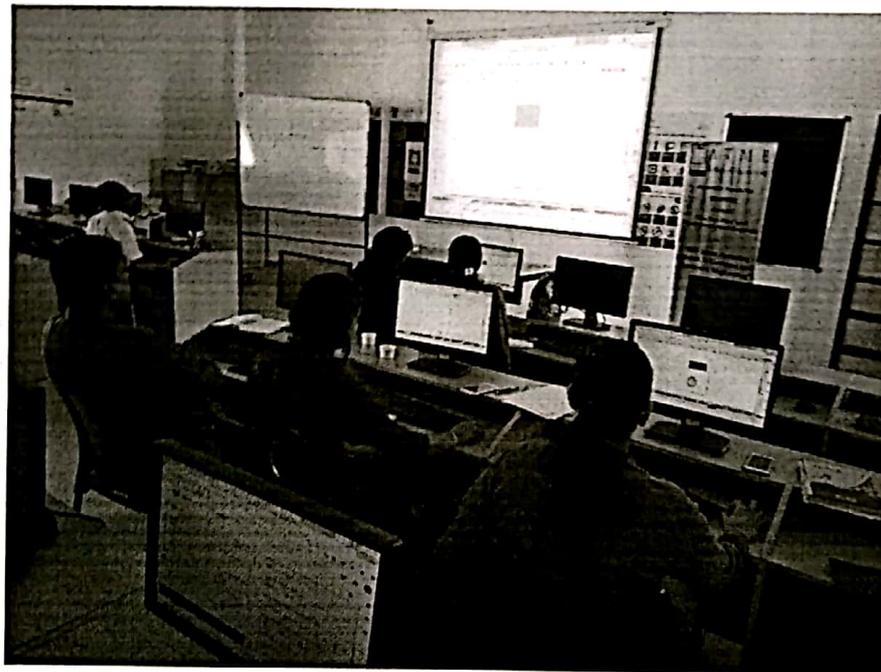
Pic: During Inauguration: From Left: Mr.Santhosh Kumar R, Assistant Professor and Event Coordinator, Chief Guest and Resource Person, Prof.R S Ananda Murthy, Associate Professor and former Head( Retd), JSS Science and Technology University, Mysuru , Dr.L. Basavaraj, Principal, ATME College of Engineering, Mysuru, Dr.Parthasarathy L, Head, Department of Electrical and Electronics Engineering



**Department of Electrical and Electronics Engineering**



Pic: Participants Group Photo



Pic: During the FDP session

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Department of Electrical and Electronics Engineering

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Pic: During the FDP session

  
Dr. PARTHASARATHY L.  
Professor and HOD  
Dept. of Electrical & Electronics Engineering  
ATME College of Engineering, Mysuru

### **FDP ON DRONE SURVEYING**

Faculty development program was organized on Total station surveying and Drone Survey technology for the period of 3 days from 26<sup>th</sup> of March to 28<sup>th</sup> of March, where faculty individuals from different institutions got an opportunity to attend and enrich their knowledge on Total station and Drone surveying. The Resource persons for the Total station and Drone surveying were Prof. Sanath Kumar, NCET, Bengaluru and Dr. Aslam Pasha, Prof & HOD academic Dean of central university, Gulbarga respectively.





From

Date: 30/05/2018

HOD

Civil Engineering Department  
ATMECE, Mysuru

To

The Principal  
ATMECE  
Mysuru

Respected Sir,

Sub: Seeking permission for 5-day FDP on MS Projects

As per the above cited subject, Department of Civil Engineering in association with Civil Engineering Association (CEA) is planning to organize 5-day FDP on "MS Projects" by Mr. Girish P (Assistant Professor, DSATM, Bengaluru) at ATMECE premises from 04/06/2018 to 08/06/2018 which will be a good platform in enriching the knowledge. So I kindly request you to grant permission in this regard and oblige.

Thanking You,

Approved  
*[Signature]*  
30/5/18

Yours Sincerely

*[Signature]*

## **Five Days Faculty Development Programme on “PYTHON APPLICATION PROGRAMMING”- Schedule and content**

Five days Faculty Development Program on “Python Application Programming” was organized by Department of Computer science, ATME College of Engineering, Mysuru. The programme was conducted from 17<sup>th</sup> January 2018 to 21<sup>st</sup> January 2018.

### **Workshop Objectives:**

- The main objective of this FDP is to get acquainted with the recent advances in “Python Application Programming” and to empower engineering fraternity to do research in this area.
- Formulate optimization problem as a linear programming problem.
- Solve optimization problems using simplex method.
- Formulate and solve transportation and assignment problems.

### **Workshop Context & Schedule**

The major aspects covered in the workshop are:

#### **Day 1: 17<sup>th</sup> Jan 2018**

- A brief background about Scripting in general and Python in particular
- Python History and Versions
- Documentation and Resources
- Python Implementations
- Getting Python
- Getting Eclips

- Installing the Python IDE (Spyder)
- Different Ways to Run Python
- IDLE
- The Python Shell (and IPython)
- Double-Clicking to Execute Python
- Running Python from Eclipse
- Debugging – Stepping Through Code
- Passing Command Line Arguments
- Accessing Command Line Arguments
- **Hands-on Exercises**

#### **Day 2: 18<sup>th</sup> Jan 2018**

- Identifiers, Naming Conventions
- Keywords and Built-ins, The Garbage Collector
- Strings, Unicode Strings, String Functions
- Formatting Strings
- Numbers, Capturing Input and Handling Data Conversion
- Booleans
- Data Structures: Sequences, Sets, and Dictionaries, Functions, Files, Classes Checking
- What is a Module? Importing Modules
- Understanding the PYTHONPATH, `__name__`
- Packages, Compiled Python Code
- Python Standard Modules, `dir()` and `help()`
- Finding and Installing Modules
- Installing pip, Installing and Upgrading Modules with Pip
- More pip Operations
- **Hands-on Lab Exercises**

#### **Day 3: 19<sup>th</sup> Jan 2018**

- Overloading Functions, Returning Data from Functions
- Function Variable Scope, Global, `globals()`, and `locals()`

- Documentation Strings in Functions
- **Hands on exercises**
- Exception Handling with try...except, Else and Finally
- Exception Class Inheritance Hierarchy
- Handling Multiple Exceptions, Explicit Exception Raising
- Re-raising Exceptions, Custom Exception Classes
- **Hands-on exercises**
- Logging – Configuring the Output, Log Record Attributes
- The date, time Module, Time, Time Formats, The sched Module
- **Hands-on Lab Exercises**

#### **Day 4:20<sup>th</sup>Jan 2018**

- Introduction to Object-Oriented Python
- Creating Your First Class,
- Inheritance, Multiple Inheritance and Method Resolution Order
- Accessing Attributes, Superclass Methods, Method Overloading
- Class Attributes, Static and Class Methods
- Introduction to Unit Testing
- The unit test Module
- GUI programming – PySide
- Creating Python GUI Applications
- Standalone vs. Web-Enabled Interfaces
- The Python Standard Library
- **Hands-on Lab Exercises**

#### **Day 5:21<sup>st</sup> Jan 2018**

- **Hands-on Lab Exercises and Valedictory**

#### **Faculty Profile:**

1. Mr. Sumit Raj, worked as principal Engineer at LodgIIQ, US based company.

2. Mr. Krishna v Sattikar, worked at IBM, CGI and HCL Technologies, Bengaluru.

### **Workshop Methodology:**

Workshop of interactive action learning methodology includes:

- Presentation
- Quiz
- Case studies
- Test, Exercises
- Micro Labs
  - Video CDs and movies
- Group Discussion
- Individual feedbacks
- Individual Coaching Plans & follow-up sessions

### **Venue:**

ATME Campus, Mysuru

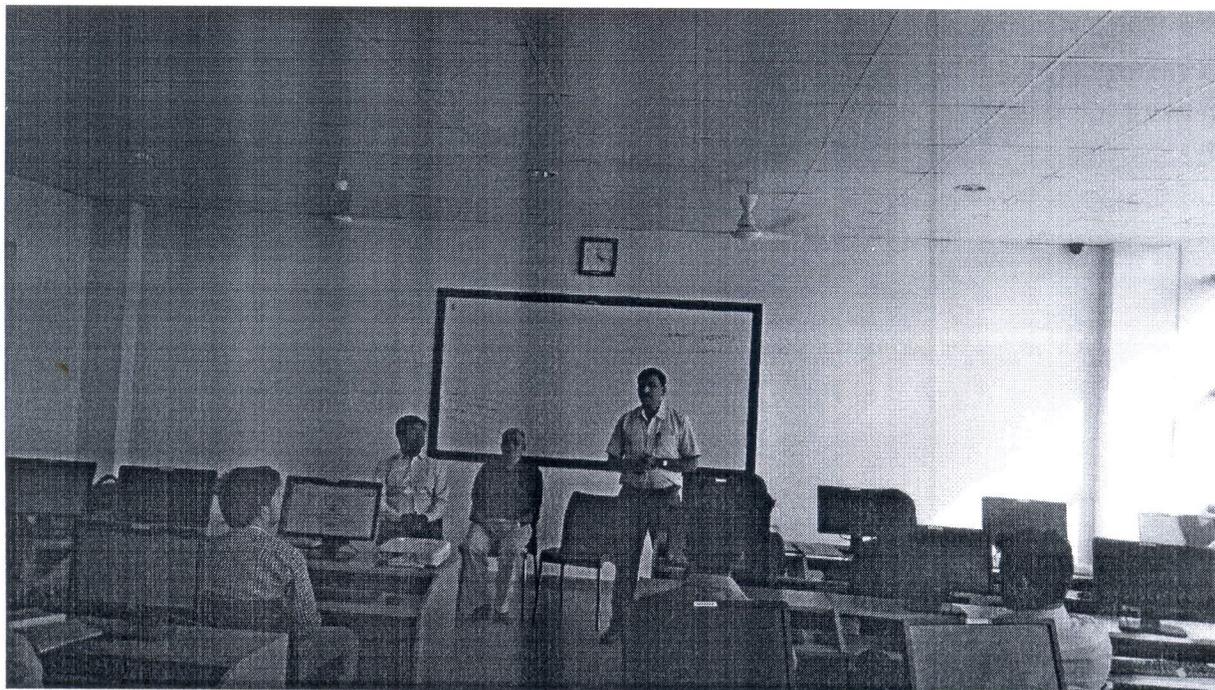
### **Workshop Date & Time**

From 17<sup>th</sup> January 2018 to 21<sup>st</sup> January 2018, All Three days - 9.30AM till 5.00PM.

### **Workshop Outcome:**

The participants will be able to:

- Select and apply optimization techniques for various problems.
- Model the given problem as transportation and assignment problem and solve.



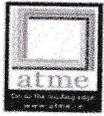
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**HOD**  
Dept. of Computer Science & Engg  
ATME College of Engineering  
Tysuru-570025

## Inauguration of FDP

- Five days Faculty Development Program on “Python Application Programming” from 17<sup>th</sup> Jan to 21<sup>st</sup> Jan was organized by Department of Computer science & engineerin, ATME College of Engineering, Mysuru. Workshop was conducted by Mr Krishna V Sattikar Worked at IBM, CGI and HCL Technologies Bengaluru and Mr. K S Manjunatha, CEO, I-Quest, Mysuru and for next two days workshop was conducted by Mr Sumit Raj, Worked as Principal Engineer at LodgIQ,US based Company.





## A brief report of FDP on

### “An Overview on Design of Machine Elements II”

AT ATMECE, MYSURU

Day 1: 16-01-2018

Department of Mechanical Engineering, ATMECE, Mysuru has organized a Five day Faculty Development Program on “An Overview on Design of Machine Elements II”, Mysuru during 16<sup>th</sup> – 20<sup>th</sup> January 2018.



The Program was intended to enhance the knowledge of Design of machine elements II. Since Design of machine elements II (10ME62/15ME64) has vast syllabus, including different design procedures, involves assumptions and use of different data handbooks. Also, the evaluators value the script according to scheme (exact values) even though if the design procedure has more than one approach/procedure. Due to this, results are not up to the desired level in previous years. In order to overcome this, the faculties teaching the subject must be aware of different procedure and usage of different data handbooks. Faculties from various Engineering colleges across the state have participated and made the event a big success.

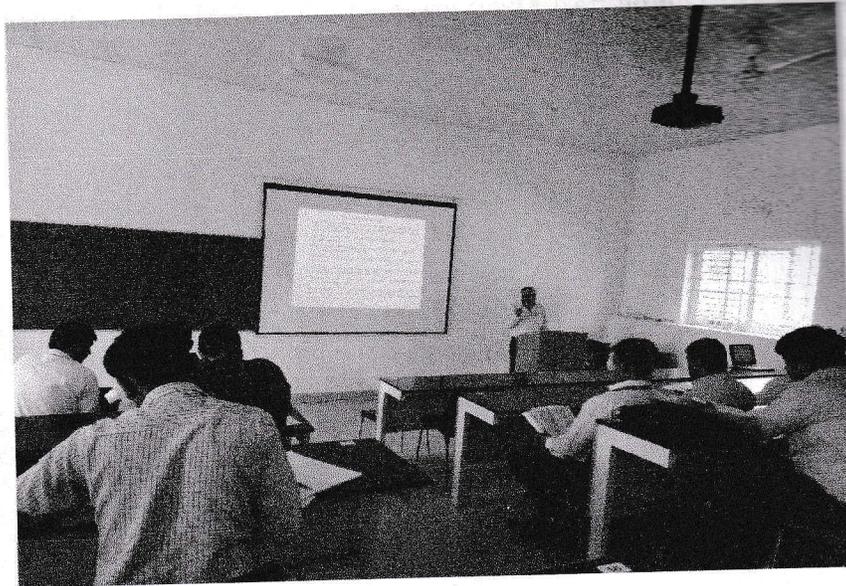
**09:00- 10:00 am: Registration**

**10:00- 11.00 am: Inauguration**

**Speaker: Dr. C V Venkatesh & Dr. P L Srinivasa Murthy**

**Topics Covered: Lubrication and Antifriction Bearings.**

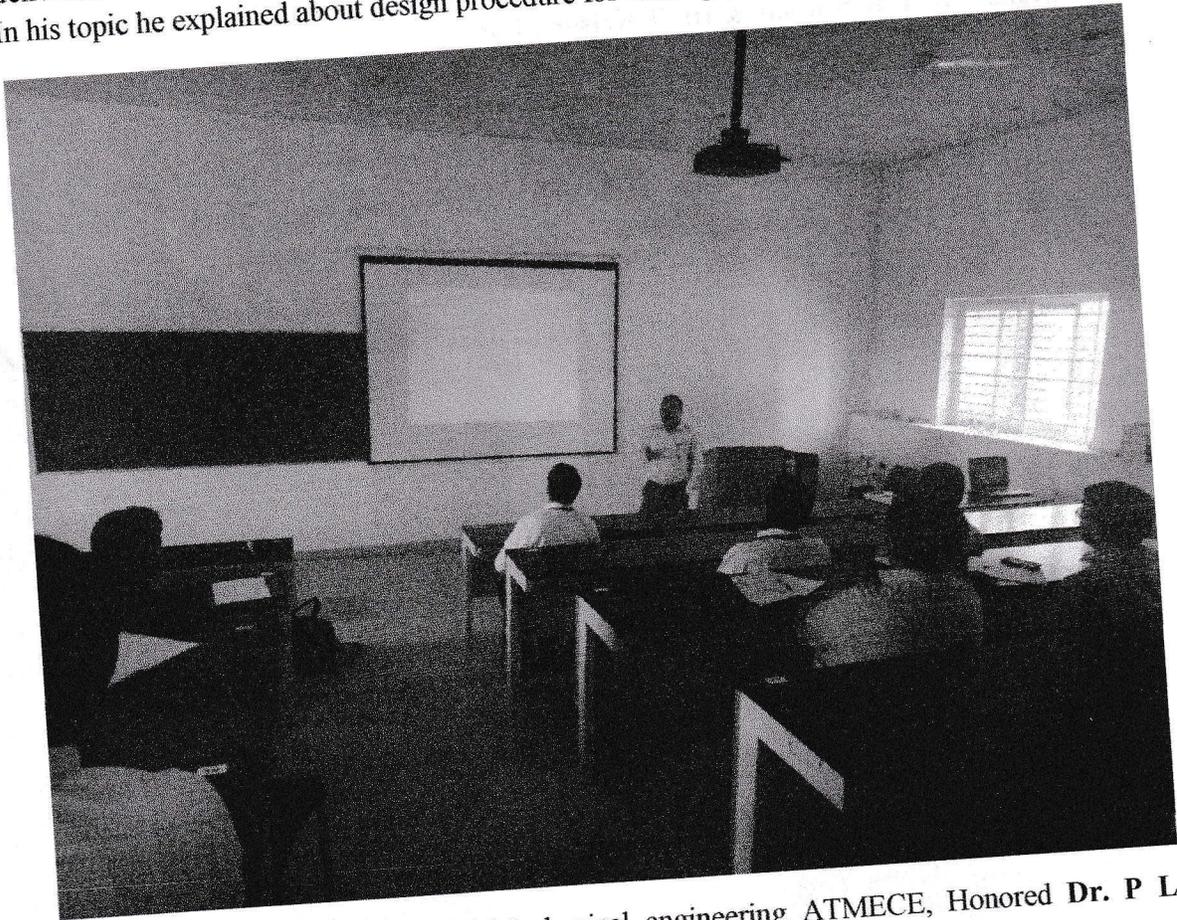
During the Morning Session **Dr. C V Venkatesh**, Professor & Head, MCE, Hassan, delivered a talk on Lubrication and Antifriction Bearings by using **Balaveera Reddy Data hand Book**. In his topic he explained about design procedure for bearings, and Antifriction bearings. Also he suggested some of the best textbooks in Design of Machine Elements.



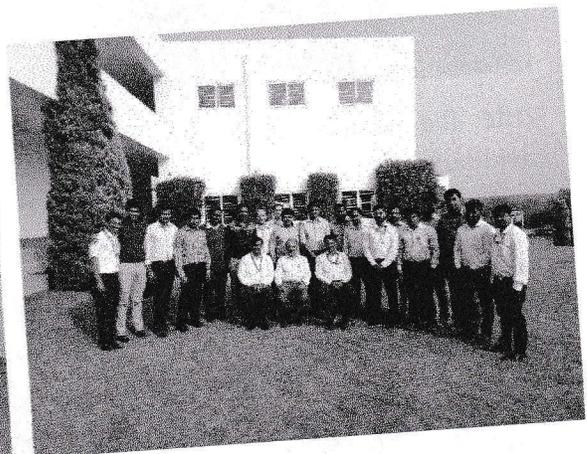
After the session, Department of Mechanical engineering ATMECE, Honored **Dr. C V Venkatesh**.



In the Afternoon Session **Dr. P L Srinivasa Murthy**, Professor, MSRIT, Bengaluru delivered a talk on Lubrication and Antifriction Bearings by using **Lingiah Data hand Book**. In his topic he explained about design procedure for bearings, and Antifriction bearings.



After the session, Department of Mechanical engineering ATMECE, Honored **Dr. P L Srinivasa Murthy**.

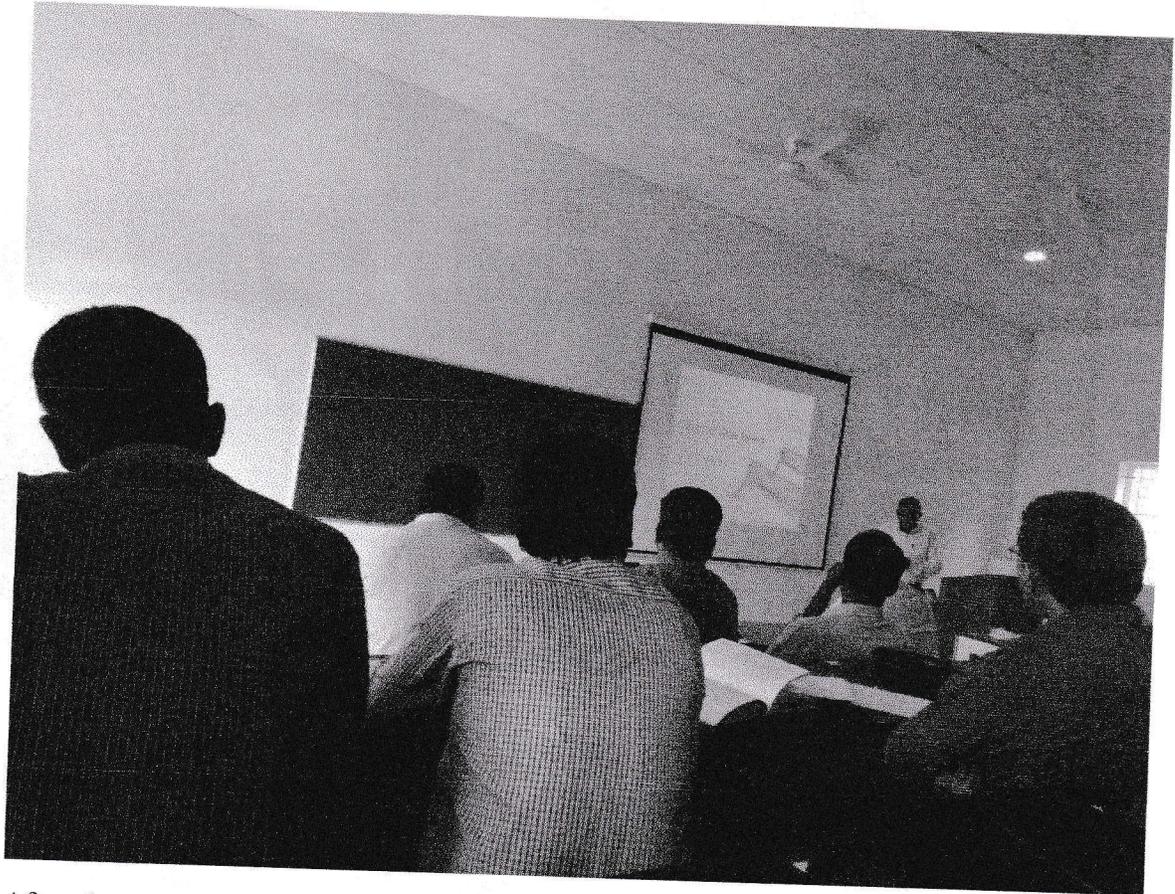


**Day 2: 17-01-2018**

Speaker: **Dr. B K Sridhar & Dr. T Krishna Rao**

Topics Covered: **Design of Gear Drives.**

During the Morning Session **Dr. B K Sridhar**, Professor, NIE, Mysuru, delivered a talk on Design of Gear Drives by using **Balaveera Reddy Data hand Book**. In his topic he explained the basic Concepts of gears & design procedure for Spur Gears.



After the session, Department of Mechanical engineering ATMECE, Honored **Dr. B K Sridhar**

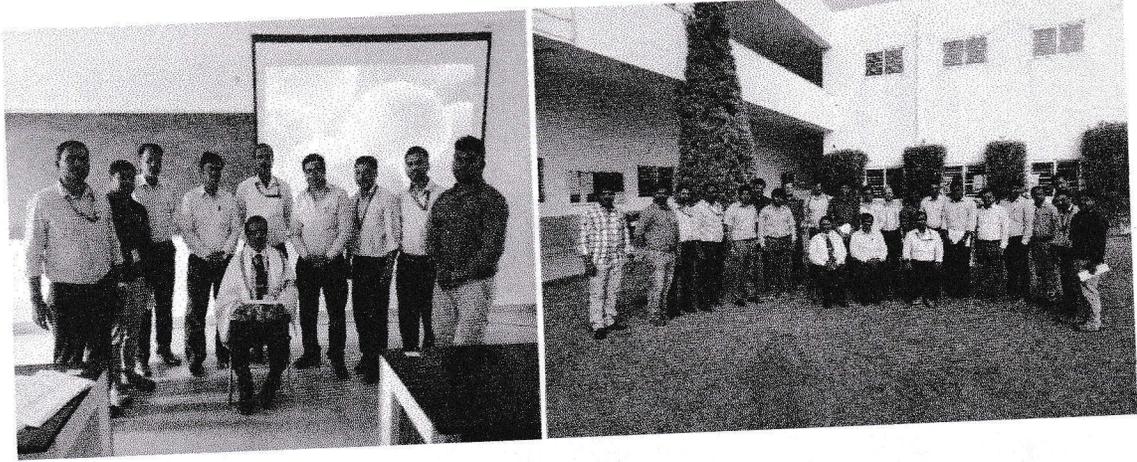


*B. K. Sridhar*  
H. O. B.  
Mechanical Engineering  
NIE Mysuru

In the Afternoon Session **Dr. T Krishna Rao**, Professor & Head, Global Academy of Technology, Bengaluru delivered a talk on Design of Gear Drives by using **Lingiah Data hand Book**. In his topic he explained design procedures for Spur Gears, Helical Gears & Bevel Gears.



After the session, Department of Mechanical engineering ATMECE, Honored **Dr. T Krishna Rao**.



**Day 3: 18-01-2018**

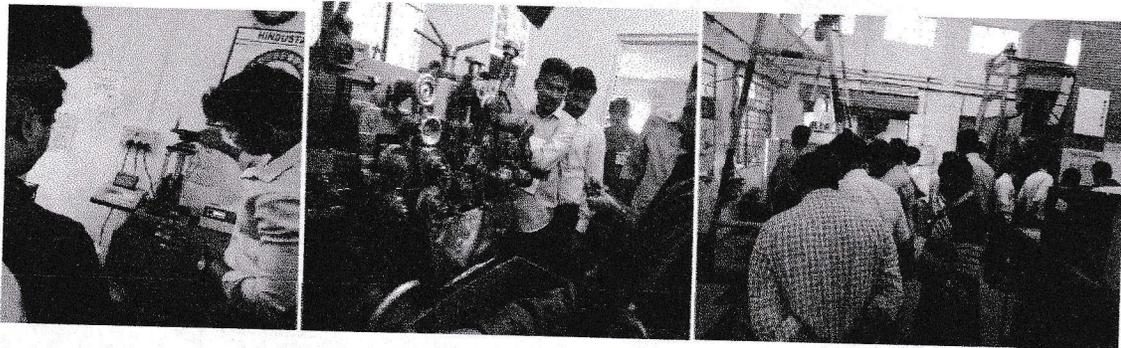
**Industrial Visit**

Industrial visit was organized to bridge the gap between Academics and Industries and to enhance practical knowledge of the topics taught in Design of Machine Elements II ( Springs and Gears)

**Industry 1: Hindusthan Springs pvt ltd, Yadavagiri, Mysuru**

Time: 10:00 am – 12:30 pm

Participants were exposed to industrial design, Manufacturing process, testing procedures, Various Heat treatment processes of springs



## Industry 2: Triveni Engineering and Industries Ltd, Mysuru

Time: 02:00 pm – 04:00 pm

Participants were exposed to industrial design in Helical gears, Manufacturing process using various CNC Gear hobbing processes, testing procedures using NDT, Various Heat treatment processes to strengthen gears.



*A. Pallavi*  
H.O.D.  
Department of Mechanical Engineering  
ATME College of Engineering, Mysuru

**Day 4: 19-01-2018**

Speaker: **Dr. Shanmukha Nagraj & Dr. G B Krishnappa**

Topics Covered: **Design of Springs & Belt drives.**

During the Morning Session **Dr. Shanmukha Nagraj**, Professor, RVCE, Bangalore, delivered a talk on Design of Springs by. In his topic he explained the innovative method of teaching and he imparted the practical applications of springs for the participants.

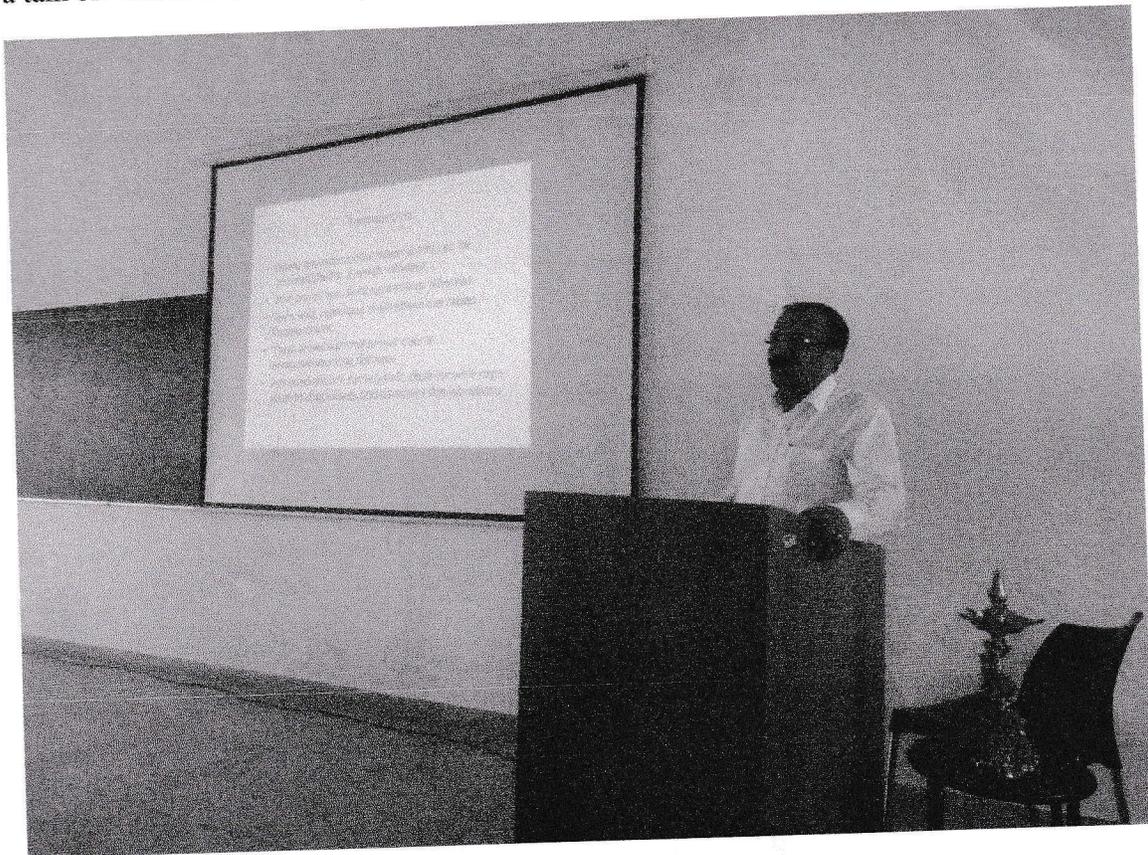


After the session, Department of Mechanical engineering ATMECE, Honored **Dr. Shanmukha Nagraj**



*Handwritten signature and text:*  
H.O.D. Engineering

In the Afternoon Session **Dr. G B Krishnappa**, Professor & Dean, VVCE, Mysuru delivered a talk on Belt drives. In his topic he explained design procedures for Belt drives.



After the session, Department of Mechanical engineering ATMECE, Honored **Dr. G B Krishnappa**.



2019 Engineering

## Day 5: 20-01-2018

Speaker: **Mr. Sandeep Kumar M**

Topics Covered: **Design of Gear Drives.**

During the Morning Session **Mr. Sandeep Kumar M**, Deputy Manager Design, Triveni Engineering and industries Mysuru, delivered a talk on Design of Gear Drives in Industries. In his topic he explained the how gears are designed in industries from raw material to finished gearbox. Which was very useful for all the participants and can be conveyed same to the students.



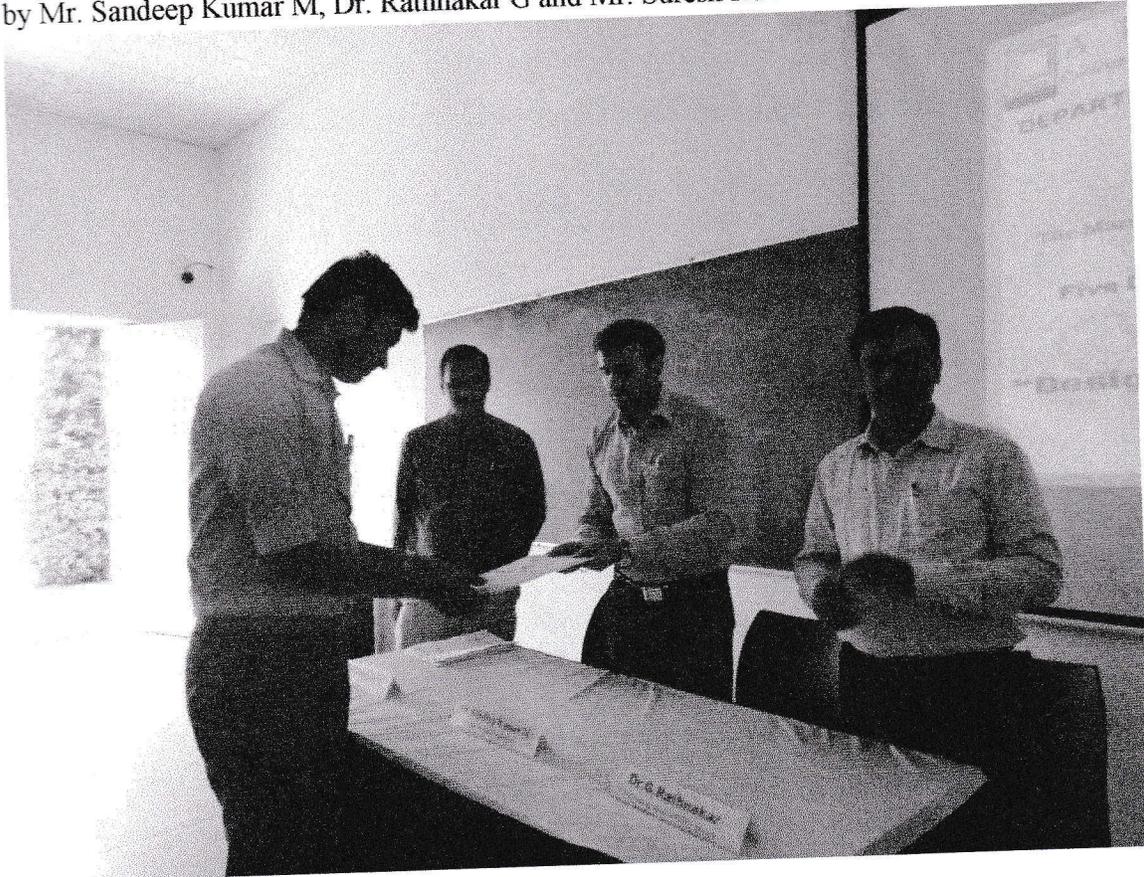
After the session, Department of Mechanical engineering ATMECE, Honored **Mr. Sandeep Kumar M**



*C. Pallavi*

#### 4.00- 4.30: Valedictory Session and Certificate distribution

In the valedictory ceremony feedback was taken from the participants of various institutes. Later Dr. Rathnakar G appreciated the effort of Coordinators personnel for carrying out such a program which benefited faculties in improving their knowledge on Academics & Industrial Design approach. Further pros and cons on outcomes of the five day faculty development program were discussed and invited the participants for their active participation in the upcoming events. Mr. Suresh Kumar S briefed about the five day program held. Finally the ceremony was concluded by distributing certificates to participants by Mr. Sandeep Kumar M, Dr. Rathnakar G and Mr. Suresh Kumar S.



Mr. Rohith S, Assistant Professor, Mechanical Department delivered the vote of thanks and Mr. Hemanth B R, Assistant Professor, Mechanical Department was the program Comperer.

*Suresh Kumar S*

*A. Rathnakar*  
Department of Mec: . Engineering  
ATME College of Engineering, Mysuru



### Department of Electrical & Electronics Engineering

Ref No: ATME/EEE/2017-18/ODD/016

08-01-2018

To  
The Principal  
ATME College of Engineering  
Mysore.

Respected Sir,

#### Sub: Budget Approval for Faculty Development Programme.

With reference to the above subject, the Department of Electrical and Electronics Engineering is organizing a 5 Days Faculty Development Programme in Association with RMJ Automation Solution and training Pvt. Ltd, Mysuru on "Industrial Automation" from 16<sup>th</sup> to 20<sup>th</sup> January 2018. The following are the Resource Persons.

Sl. No	Resource Person
1	Mr. Ranjithkumar Automation project manager Adarsha control and automation Pvt. Ltd, Bangalore. (A system house of Schneider electric)
2	Smt Kiran Pathak Managing Director RMJ Automation Solution and training Pvt. Ltd, Mysore.
3	Mr. Saravanan Automation project engineer Adarsha control and automation Pvt. Ltd, Bangalore. (A system house of Schneider electric)

The budget plan for faculty development programme is as follows:

SI No	Particulars	Amount
1.	Flowers and Bouquets ( for inauguration and valedictory)	500
2.	Workshop Banner	1500
3.	Hospitality for Resource Person (all days)	2000
4.	Certificate and Stationeries	1000
5.	Miscellaneous	400
<b>Total</b>		<b>5400</b>

Total amount in words: *Five thousand four hundred Rupees only*

*Approved*

*[Signature]*  
PRINCIPAL

ATME College of Engineering  
13th KM, Mysuru-Kanakapura-Bangalore Road  
Mellahalli, Mysuru-570028

With Regards

*[Signature]*

HOD  
Dr. PARTHASARATHY L.  
Professor and HOD  
Dept. of Electrical & Electronics Engineering  
ATME College of Engineering, Mysuru



## Department of Electrical and Electronics Engineering

### One week Zonal Level Faculty Development Programme on Industrial Automation

The Department of Electrical & Electronics Engineering had organised a **One week Zonal Level Faculty Development Programme on "Industrial Automation"** in ATMECE, Mysuru from January 16<sup>th</sup> to 20<sup>th</sup>, 2018.

**Dr. L Basavaraj**, Principal, ATME College of Engineering, presided the event and said the world is getting automated. The requirement of human resource in industries is also depleting due to the automation. He further cited the revised AICTE norms of faculty requirement and stressed on the importance of updating skillset by faculties.

**Dr. Parthasarathy L**, Head, Department of EEE in his address spoke about the objectives of FDP. He said, VTU has introduced a course on sensors and transducers as an elective for 6<sup>th</sup> semester knowing its importance in Industrial applications. He cited MHRD and NGO statistics on placements. He further continued saying admissions are coupled with placements. To bridge the gap between industry and institution, Faculty are empowered with these type of FDP so that they can improve the skillset of students.

Resource Persons, **Mrs. Kiran Pathak**, Managing Director, RMJ Automation Solution and training Pvt Ltd, Mysuru and **Mr. Saravanan** Manager Project Execution, Adarsha Control and Automation Pvt. Ltd. Bengaluru (A system house of Schneider Electric) covered topics on Industrial Sensors & Transducers, PLC and its programming Fundamentals, Linking of different sensors with PLC & PLC programming with sensors, Supervisory Control and Data Acquisition (SCADA), Hands on training on Schneider SCADA Vijeo citect 7.5. Finally Project work based on Sensors, PLC & SCADA Applications was accomplished in the weeklong schedule.

Participants gained exposure on practical Hands on training on Delta DVP-PLC under WPLSOFT, Troubleshooting and fault diagnostics of PLC, Development of SCADA screens, Dynamic linking of screens with database and Evaluation of Developed automation system.

In the valedictory session, Feedback Session from participants was held followed by distribution of certificates. Event coordinator, **Mr. Praveen Kumar M**, Assistant Professor, briefed the report of the event. **Dr. Parthasarathy L**, Head, Department of EEE, Resource persons **Mrs. Kiran Pathak**, **Mr. Saravanan**, Faculty of the department were present on the occasion.



## Department of Electrical & Electronics Engineering

### Report on participation in One week Zonal Level Faculty Development Programme on "Industrial Automation"

One week Faculty Development Program on "Industrial Automation" was organized By Department of Electrical and Electronics Engineering, ATMECE, Mysore, from January 16<sup>th</sup> to 20<sup>th</sup>, 2018.

- Resource persons:**
1. **Mrs. Kiran Pathak**, MD, RMJ Automation Solution and training Pvt Ltd, Mysuru.
  2. **Mr. Saravanan**, Manager Project Execution, Adarsha Control and Automation Pvt. Ltd. Bengaluru
  3. **Ranjithkumar**, AGM Project Execution, Adarsha control and automation Pvt. Ltd. Bengaluru

**Day 1: 16-01-2018**

Speaker 1: Mrs. Kiran Pathak

Mrs. Kiran Pathak presented talk on process variables & instrumentation in process industries, Sensor and its types, basic criteria for selection of sensors and transducers and data transmission and telemetry followed by hands on training on sensors

**Day 2: 17-01-2018**

Speaker 1: Mrs. Kiran Pathak

Mrs. Kiran Pathak presented talk on Conventional relay logic control VS PLC, Basics of PLC & types, Redundant systems & its types, Detailed programming instructions & monitoring of programs, followed by Hands on training on Delta DVP -PLC under WPLSOFT

**Day 3: 18 -01-2018**

Speaker 1: Mrs. Kiran Pathak

Hands on training by Mrs. Kiran Pathak on Methods of sensor hardware connections with PLC, Simulation of different applications control with the help of real sensors, Troubleshooting and fault diagnostics of PLC

**Day 4: 19 -01-2018**

Speaker 2: Mr. Saravanan

He Presented His Talk On Fundamentals of SCADA, followed by hands on training Creating a new SCADA application, Modbus protocol and SCADA Communication with PLCs, Session Development of SCADA screens, Dynamic linking of screens with database, SCADA advanced features.

**Day 5: 20 -01-2018**

Speaker 3: Mr. Ranjithkumar

He Presented His Talk on Development of small industrial automation system, Hands on Session development of small industrial automation system, Evaluation of Developed automation system



Standing from Left to Right: FDP Co-ordinator Mr.Praveen Kumar M, Principal Dr.L Basavaraj, Resource Person Mrs. Kiran Pathak, Managing Director, RMJ Automation Solution and training Pvt Ltd, Mysuru, Dr.Parthasarathy L, Head, Dept. of EEE



Fig: Resource Person addressing the participants

## Department of Electrical and Electronics Engineering

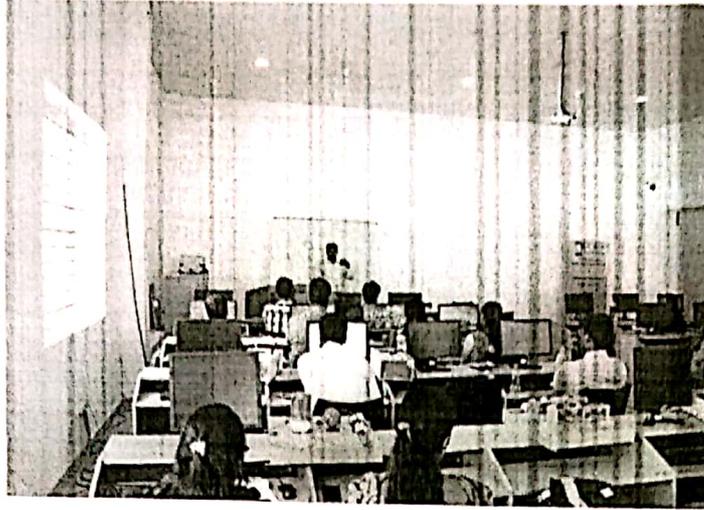


Fig: Resource Person addressing the participants



Fig: Hands on Training Session

  
Dr. PARTHASARATHY L.  
Professor and HOD  
Dept. of Electrical & Electronics Engineering  
ATME College of Engineering, Mysuru

**Three - Day Workshop**  
on  
**"COMPUTER NETWORK USING  
NETWORK SIMULATOR"**

*(Hands-on with NS-2.35 Tool)*

**2<sup>nd</sup> to 4<sup>th</sup> January 2018**

**REGISTRATION FORM**

Name : .....

(In Block Letters)

Designation: .....

College : .....

Department: .....

Contact Address : .....

.....

.....

.....

Phone / Cell No. : .....

E-mail : .....

I declare that the details furnished are true to the best of my knowledge. I agree to abide by the rules & regulations of the programme. If selected, I shall attend the programme for the entire duration.

Place :

Date :

Signature

Notes: 1. Photo Copy may be used  
2. \*Strike off whichever is not applicable

**Chief Patrons:**

**Sri. L. Arun Kumar**  
Chairman, ATMECE, Mysuru.

**Sri. K. Shivashankar**  
Secretary, ATMECE, Mysuru.

**Sri. R. Veeresh**  
Treasurer, ATMECE, Mysuru.

**Patron:**

**Dr. L. Basavaraj**  
Principal, ATMECE, Mysuru.

**Organizing Chair:**

**Dr. Mahesh P K**, HOD, Dept. of ECE

**Chief Coordinators:**

**Dr. Bhagyashree S R**, Dept. of ECE

**Dr. Prakash K**, Dept. of ECE

**Prof. Prathiba M K**, Dept. of ECE

**Conveners:**

**Dr. Yathisha L**, Dept. of ECE

**Prof. Girish M**, Dept. of ECE

**Co-Conveners:**

**Prof. Abhilash G**, Dept. of ECE

**Prof. Manjunath K**, Dept. of ECE

**Faculty Coordinators:**

**Prof. Guruprasad K N**, Dept. of ECE

**Prof. Pradeep Kumar Y**, Dept. of ECE

**Prof. Chandrashekar P**, Dept. of ECE

**Prof. Prajwalasimha S N**, Dept. of ECE

**Prof. Darshini M B**, Dept. of ECE

**Prof. Meghana M N**, Dept. of ECE

**Technical Committee:**

**Mr. Manjunath H R**, Foreman, Dept. of ECE

**Mr. Abhinandan V**, Instructor, Dept. of ECE

**Mr. Karunakar Babu**, Instructor, Dept. of ECE



**A T M E**

**College of Engineering**

13<sup>th</sup> Kilometer, Bannur Road, Mysuru - 570 028

**Three - Day Workshop**

on

**"COMPUTER NETWORK USING  
NETWORK SIMULATOR"**

*(Hands-on with NS-2.35 Tool)*



**2<sup>nd</sup> to 4<sup>th</sup> January 2018**

**Organized by**

**Department of  
Electronics & Communication Engineering**



**Sponsored By**





Date: 12/12/2017

To,

The Principal,  
ATME College of Engineering,  
Mysuru.

Through: The HOD,  
Department of ECE,  
ATMECE, Mysuru.

Respected Sir,

Sub: **Requesting to conduct three days' State Level workshop On "Computer Network Using Network Simulator"**

With reference to the above subject, we are planning to organize a three days' state level workshop on **"Computer Network Using Network Simulator"** from **02/01/2018** to **04/01/2018** in our college premises in association with IETE Student Forum (ISF).

The Resource persons for this workshop are faculty members from **DBIT, Bengaluru**. The budget proposal is enclosed for your kind perusal

Hence, we request you to kindly grant us the permission to conduct the above mentioned workshop and oblige.

Thanking you,

Yours faithfully

*[Signature]* *[Signature]*  
12/12 12/12

(Event Coordinators)

To, Principal Sir for kind approval  
*[Signature]*  
12/12

Approved

*[Signature]*  
12/12/17



Date: 15/11/2017

To,

The Principal,  
ATME College of Engineering,  
Mysuru.

Through: The HOD,  
Department of ECE,  
ATMECE, Mysuru.

Respected Sir,

**Sub: Requesting to conduct three days' State Level FDP On "ARM CORTEX M3  
Microcontroller"**

With reference to the above subject, we are planning to organize a three days' state level Faculty Development Program (FDP) on **"ARM CORTEX M3 Microcontroller"** from **14/12/2017** to **16/12/2017** in our college premises in association with IETE Student Forum (ISF) and Advanced Electronic Systems (ALS).

**Need for FDP:** As per VTU CBCS scheme for 6<sup>th</sup> semester **"ARM microcontroller & Embedded System"** subject has been included along with the **"Embedded Controller Laboratory"** in the curriculum. In this regard, we would like to organize the above said FDP, which will be helpful to the faculty fraternity of Engineering colleges (affiliated to VTU) to enhance their knowledge in the above said program.

The Resource persons for this FDP are from **Advanced Electronics Systems (ALS) from Bengaluru**. The total estimated expenditure and other details (sponsorships) to carry out the FDP are enclosed.

Hence, we request you to kindly grant us the permission to conduct the above mentioned FDP and oblige.

Thanking you,

*Forwarded to Principal for kind approval*

Yours faithfully

*Jathishyl*  
15/11/2017  
(Event Coordinators)

*Onal*  
15/11/17  
Professor & Head  
Dept. of Electronics & Communication  
ATME COLLEGE OF ENGINEERING  
MYSURU - 570 028

Professor & Head  
"ISF IETE Student Forum"  
Dept. of Electronics & Communication  
ATME COLLEGE OF ENGINEERING  
MYSURU - 570 028

*Approved*  
*[Signature]*  
17/11

Report of Three - Day Faculty Development Programme  
on  
**“ARM Cortex M3 Microcontrollers”**  
held in ATME College of Engineering, Mysuru

The Department of Electronics and Communication Engineering of ATME College of Engineering, Mysuru had organized a three - day faculty development programme on “ARM Cortex M3 Microcontrollers” from 14<sup>th</sup> to 16<sup>th</sup> December, 2017, in association with ALS Bengaluru. It was sponsored by Institute of Electronics & Telecommunications Engineers (IETE), Mysuru. Totally 25 faculties from the various colleges were participated in the above said FDP. The workshop was coordinated by Chief Coordinator Dr. Mahesh P K, HOD, Convener Dr. Yathisha L and Co-Conveners Girish M and Harshitha N, Asst. Professors, Dept. of ECE, ATME with Dr. L. Basavaraj, Principal, ATME College of Engineering, Mysuru as organizing chair.

The Resource persons were Mr. Sunil V Shamatnavr, General Manager, ALS Bengauru, Mr. Harish V Mekali, Technical Consultnat, ALS Bengaluru and Mr. Nandish K S, Senior technical support Engineer, ALS Bengaluru.



*The above picture shows lighting of the lamp by dignitaries during the inauguration ceremony on 14<sup>th</sup> December, 2017.*

The workshop mainly focused on ARM cortex M3 microcontrollers development in the recent trend, along with how microcontrollers were viewed with respect to industrial applications. In the day 1, Mr. Sunil T S addressed the participants with different solutions available to accomplish embedded systems secondly Mr. Harish V Mekali took the second session in which overview of Microcontrollers history and drastic development in the field of ARM processors. Different versions of ARM and ARM Cortex version microcontrollers. Apart from this how to do assembly code to M3 microcontroller has been introduced.

In Day 2, Lab sessions were started in the morning with mainly concentrated on the Practical laboratory experiments as per the VTU CBCS syllabus like how to interface ADC, DAC, Stepper motor, LCD display and Hex Keypad to get the value pressed by the user in Keypad.

In day 3, Mr. Nandish takeover the session and in which how to program hardware interrupts in the Cortex board and UART to monitor the messages required. Most importantly all sessions in day 2 and day 3 are practical in which all participants provides with ARM Cortex M3 LPC1768 hardware bard is provided.

On the final day last session is dedicated to question and answer session, here mini project ideas that can be incorporated to curriculum project for the students has been discussed.



*The above pictures show participants are involved during the faculty development programme*



From

Date: 12/12/2016

HOD  
Civil Engineering Department  
ATMECE, Mysuru

To  
The Principal  
ATMECE  
Mysuru

Respected Sir,

Sub: Seeking permission for 6-day FDP on Hands on work on Self-Compacting Concrete

As per the above cited subject, Department of Civil Engineering in association with Civil Engineering Association (CEA) is planning to organize 6-day FDP on "Hands on work on Self-Compacting Concrete" by Yogesh (Manger, ACC Ultratech, Mysuru) at ATMECE premises from 19/12/2016 to 24/12/2016 which will be a good platform in enriching the knowledge. So I kindly request you to grant permission in this regard and oblige.

Thanking You,

Yours Sincerely

Approved

  
12/12/16



Six days titled “Self Compacting Concrete” was organised by department of Civil Engineering on 19<sup>th</sup> and 24<sup>th</sup> of December 2016.

### **Proceedings of 19/12/2016**

Program: Inauguration program

Venue: Auditorium

Inaugural function was chaired by Dr. L. Basavaraj, Principal ATMECE, Mysuru, Mr Manuvijay Assistant Professor and Head of the department, addressed the gathering. Dr. Suresha K.J. proposed vote of thanks for all those present for the inaugural function

Program: Invite talk by Dr. L. Basavaraj

Venue: New Seminar hall, Department of Civil Engineering

Mr Yogesh A, Manager, Ultratech cements, Mysore zone is the resource person, Mr. ManuVijay, HOD, Dept of Civil Engg, Mr. Srivathsa H.U, Asst. Professor, Dept of Civil Engg. He presented his speech on “Self Compacting Concrete”. The development of new technology in the material science is progressing rapidly. In the last three decades, a lot of research was carried out throughout globe to improve the performance of concrete in terms of strength and durability qualities. Consequently concrete has no longer remained a construction material consisting of cement, aggregate and water only, but has becomes an engineered custom tailored material with several new constituents to meet the specific needs of construction industry.

Day 1:

Session1: Introduction to Self Compacting Concrete

The development of new technology in the material science is progressing rapidly. In the last three decades, a lot of research was carried out throughout globe to improve the performance of concrete in terms of strength and durability qualities. Consequently concrete has no longer remained a construction material consisting of cement, aggregate and water only, but has becomes an engineered custom tailored material with several new constituents to meet the specific needs of construction industry. The growing use of concrete in special architectural configurations and closely spaced reinforcing bars have made it very important to produce concrete that ensures proper filling ability, good structural performance and adequate durability. In recent years, lot of research was carried out throughout the world to improve the performance of concrete in terms of its most important properties (strength and durability).

Tea Break at 11:15 A:M

Session 2: Application and uses of SCC

Day 2:

Session 1: Theory of Mix design of SCC

Tea Break 11:15 A:M

Session 2: Theory and hands on Mix design of SCC

Day 3:

Session 1: Hands on work on SCC

Tea Break 11:15 A:M

Session 2: Hands on work

Day 4:

Session 1: Hands on work with some additional materials in SCC

Tea break : 11:15 A:M

Session 2: Assessment of physical properties of SCC

Day 5:

Session 1: Assessment of mechanical properties of SCC

Tea Break :11:15 A:M

Session 2: Hands on work

Day 6:

Session 1: Hands on work

Tea Break :11:15 A:M

Session 2: Concluding session and valedictory

Program: Valedictory

Venue: Seminar hall, Department of Civil Engineering

As a gesture to mark end of successful completion of six day FDP on Self compacting Concrete, valedictory function was held, it was presided by Dr. Basavaraj L, Principal-ATMECE. He offered his advice in gaining the knowledge on updating concepts in civil engineering. Program was adjourned after a thank you note by Dr K.J Suresha



Date: 12/12/2016 to 17/12/2016

**A BRIEF report on Six Days Faculty Development Programme on  
“NETWORK SIMULATOR – 3”**

Six days Faculty Development Program on “NETWORK SIMULATOR – 3” was organized by Department of Computer science, ATME College of Engineering, Mysuru. The programme was conducted from 12<sup>th</sup> December 2016 to 17<sup>th</sup> December 2016.

The main objective of this FDP is to get acquainted with the recent advances in “NETWORK SIMULATORS” and to empower engineering fraternity to do research in this area.

The major aspects covered in the workshop are:

**Day 1: 12<sup>th</sup> Dec 2016**

- Differences between ns-2 and ns-3
- Overview of ns-3
- Structure of a C++ program in ns-3
- Sample C++ and Python programs

**Day 2: 13<sup>th</sup> Dec 2016**

- Using PyViz and NetAnim for visualizations
- Advanced C++ programs
- Wireless network simulations
- Using wireshark for tracing

**Day 3: 14<sup>th</sup> Dec 2016**

- Using gnuplot for plotting graphs
- Simulating BSS and IBSS in ns-3
- Simulating a hidden node problem in ns-3
- Using RTS/CTS for collision avoidance in ns-3

**Day 4: 15<sup>th</sup> Dec 2016**

- Simulating Rate Adaptation Algorithms in ns-3
- Basics of LTE simulation in ns-3
- Comparing the performance of LTE Schedulers in ns-3

**Day 5: 16<sup>th</sup> Dec 2016**

- Implementing routing security attacks in ns-3
- Linking external libraries with ns-3

**Day 6: 17<sup>th</sup> Dec 2016**

- Using callbacks for tracing in ns-3
- Implementing a new module in ns-3



# A T M E

College of Engineering



## Department of Computer Science & Engineering

28<sup>th</sup> Nov 2016

### CIRCULAR

All Faculty members are hereby informed that Six Days Faculty Development Programme on " Network Simulator-3" is being organised on 12<sup>th</sup> Dec 2016 to 17<sup>th</sup> Dec 2016.

All Faculties should participate positively.



*[Signature]*  
**Head of the Department**

**HOD**

Dept. of Computer Science & Engg.  
ATME College of Engineering  
Mysuru-570028



## **Six Days Faculty Development Programme on “NETWORK SIMULATOR – 3”**

### **Schedule and content**

Six days Faculty Development Program on “NETWORK SIMULATOR – 3” was organized by Department of Computer science, ATME College of Engineering, Mysuru. The programme was conducted from 12<sup>th</sup> December 2016 to 17<sup>th</sup> December 2016.

#### **Workshop Objectives:**

- The main objective of this FDP is to get acquainted with the recent advances in “NETWORK SIMULATORS” and to empower engineering fraternity to do research in this area.
- Demonstrate operation of network and its management commands
- Simulate and demonstrate the performance of GSM and CDMA
- Implement data link layer and transport layer protocols.

#### **Workshop Context & Schedule**

The major aspects covered in the workshop are:

##### **Day 1: 12<sup>th</sup> Dec 2016**

- Differences between ns-2 and ns-3
- Overview of ns-3
- Structure of a C++ program in ns-3
- Sample C++ and Python programs

##### **Day 2: 13<sup>th</sup> Dec 2016**

- Using PyViz and NetAnim for visualizations

- Advanced C++ programs
- Wireless network simulations
- Using wireshark for tracing

#### **Day 3: 14<sup>th</sup> Dec 2016**

- Using gnuplot for plotting graphs
- Simulating BSS and IBSS in ns-3
- Simulating a hidden node problem in ns-3
- Using RTS/CTS for collision avoidance in ns-3

#### **Day 4: 15<sup>th</sup> Dec 2016**

- Simulating Rate Adaptation Algorithms in ns-3
- Basics of LTE simulation in ns-3
- Comparing the performance of LTE Schedulers in ns-3

#### **Day 5: 16<sup>th</sup> Dec 2016**

- Implementing routing security attacks in ns-3
- Linking external libraries with ns-3

#### **Day 6: 17<sup>th</sup> Dec 2016**

- Using callbacks for tracing in ns-3
- Implementing a new module in ns-3

#### **Faculty Profile:**

1. Dr. Mohit P Tahiliani, Assistant Professor, Department of Computer Science, NITK, Surathkal was the resource person for the programme.

#### **Workshop Methodology:**

Workshop of interactive action learning methodology includes:

- Presentation

- Quiz
- Case studies
- Test, Exercises
- Micro Labs
  - Video CDs and movies
- Group Discussion
- Individual feedbacks
- Individual Coaching Plans & follow-up sessions

**Venue:**

ATME Campus, Mysuru

**Workshop Date & Time**

From 12/12/2016 to 17/12/2016, All Three days - 9.30AM till 5.00PM.

**Workshop Outcome:**

The participants will be able to:

- Analyze and Compare various networking protocols.
- Demonstrate the working of different concepts of networking.
- Implement, analyze and evaluate networking protocols in NS2 / NS3



  
HOD  
Dept. of Computer Science & Engg  
ATME College of Engineering  
Mysuru-570028

# ATME College Of Engineering

Faculty Development Program

## “ Network Simulator-3 ”

12 to 17 December 2016





**ATME College of Engineering**  
**Department of Computer Science and Engineering**



**Report on Research Activity for the Academic Year 2016-17**

The Computer Science and Engineering department promotes active involvement of faculty and students in technical collaborative programs at national and international level. These programs aim at exchange of knowledge among students and faculty in terms of research or project work, and academic programs. The centre also offers short/ Long term training to students on latest technologies and development tools and encourages publication of technical articles and provides teaching materials for E-Learning. The centre works to provide solution for various problems in the field of Medical Science, Information Security, image classification, Big data etc.

**List of Faculties with Ph. D**

Serial No.	Name of the Faculty	University
1.	Dr. Ramesh V	Satyabhama University, Chennai
2.	Dr. Puttegowda D	University of Mysore

**List of Ph.D Guides in ATMECE:**

Serial No.	Name of the Faculty	Research Center
1.	Dr. Ramesh V	Satyabhama University, Chennai
2.	Dr. Puttegowda D	PES, Mandya

**List of Ph.D Perusing Candidates in CSE, ATMECE, Mysore**

**List of Faculty: Thesis Submitted and Ph. D awarded**

Serial No.	Name of the Faculty	Research Center
1	Mr. Puttegowda D	PES, Mandya

### List of Faculty: Comprehensive Viva Voce :NIL

#### List of Faculty: Taken Course Work Exam

Serial No.	Name of the Faculty	Research Center
1	Mr. Anil Kumar C J	VTU.RRC, Belagavi
2	Mrs. Nasreen Fathima	VTU RRC,Belagavi
3	Mrs. M S Sunitha Patel	SJCE, Mysore

#### List of Faculty: Registered for Ph.D

Serial No.	Name of the Faculty	Research Center
1	Mrs. Archana M R	VVIET, Mysore

#### List of Ph.D Scholars

**Research Guide: Dr. Ramesh V**

Number of Research Scholars Guiding: NIL

#### THE RESEARCH LABORATORY HAS THE FOLLOWING FACILITIES:

- A fire extinguisher mounted to the wall or in an extinguisher cabinet;
- Chairs and furniture that are constructed of non-cloth material so that they can be effectively decontaminated;
- An integrated development environment (IDE) is a software application that provides comprehensive facilities to computer programmers for software development. Computing Systems ,Updated Software's
- Reputed Journal access like SCI, Thomson router indexed to the Research Scholars.
- Sophisticated tools and softwares to conduct Research.
- Sufficient research related books and Internet facility.
- Online course material and videos of NPTEL and EDUSAT Courses are available at URL-[http:// 172.16.16.16](http://172.16.16.16)

- Supports for travel for those presenting research papers in national, international conferences, subject to specified rules of college
- Support for preparing research papers for publication in journals, or seminars, as per rules of college.

## **ROLES AND RESPONSIBILITIES**

### **RESEARCH OFFICER**

The Research Officer shall discharge the duties under directions of the Head concerned i.e. the Head of the Department concerned and Head of the institute. He/she shall broadly perform the following duties:

All works related to research including.

1. Planning, Monitoring, Coordinating and finalizing the work of Research Assistants
2. Supporting the Departmental Extension Programmes, Orientation and training, seminars, Workshops and sponsored projects
3. Documentation of VPP and other outreach programmes
4. Help in arranging industry institute collaboration programs and visits.
5. Any other works assigned from time to time.

### **RESEARCH ASSISTANT**

The Research Assistant shall discharge the duties under directions of the Head concerned i.e. Head of the Department concerned and Head of the institute.

He/she shall broadly perform the following duties:

1. Preparation of study tools
2. Pre-testing and revision of schedules.
3. Field Data Collection
4. Editing, coding, interpretation, processing and analyzing the data
5. Preparation of study reports
6. Documenting the collected data for the use of faculty, students, govt. departments and NGOs

## **LABORATORY SAFETY MANAGEMENT**

- Handling hazardous materials requires a laboratory safety plan that identifies the hazards present and explains how to control them.
- Identify hazards in the laboratory space.
- Establish lab-specific training and emergency procedures (e.g., chemical spills, fire) for the lab.
- Establish Standard Operating Procedures (SOPs) for all hazardous procedures.
- Ensure that all training on SOPs, lab specific information, and emergency procedures is documented.
- Post emergency contact signs.

## **UTILIZATION OF R&D**

The R&D is used for the conduction of Network Simulator-3 workshop for UG/PG students and Research scholars/Faculties from various colleges.

## **MAJOR GOALS AND OBJECTIVES**

- To promote Research work in various domains.
- Research Papers Presentation / Publication in referred journals
- Institute- R&D Organization- Industry Collaboration
- Core Competence and Consultancy
- PhD Program Management
- Faculty Development Program
- Patents & IPR Knowledge

The significant factors indicating potential growth in the research activities includes the enhancement in the research publications in peer reviewed journals, Research Projects/ grants, Patents, Collaborations, Doctoral program and Faculty development. R & D cell is focusing the attention on the following major activities:

The cell provides the following financial assistance for research activities, as a means of effective staff development.

- Initial funding for preparation of research proposals

7. Conducting micro studies on important social issues relating to integrated rural development
8. Preparation of evaluation report from the extension activities carried out by the various departments.
9. Documenting the extension activities carried out by various departments.
10. Helping the department in implementing funded projects
11. Providing orientation and training to the UG/PG and Ph.D Scholars for conducting research surveys
12. Any other works assigned from time to time.

**REPORT OF FDP ON**  
**“INDUSTRIAL DESIGN – AUTOMOTIVE WORKFLOW”**  
**AT ATMECE, MYSURU**

Department of Mechanical Engineering, ATMECE, Mysuru has organised a Two day Faculty Development Program on “Industrial Design – Automotive Workflow” in association with CADD Centre, Mysuru during 30-31<sup>st</sup> January 2017.

The Program was intended to spread the knowledge of Industrial Design related to Automotive Workflow, 3D Printing, Autodesk - Alias and Computational Fluid Dynamics. Faculties from various Engineering colleges across the state have participated and made the event a big success.

**Inauguration:**

The Inauguration of the Program was carried out in the gracious presence of our beloved Principal Dr. L Basavaraj, Head of the Department Dr. Rathnakar G, National Head of CADD Centre Mr. B R Ram and Centre Head of CADD Mrs. Chaitra S.



Addressing the gathering Dr. L Basavaraj, Principal, ATMECE, spoke about the importance of FDP Program for all faculties as it gives an opportunity to learn new and advanced subjects which in turn improves the faculty profile.

Mr. B R Ram, National Head, CADD Centre was the chief guest of the function. He briefed the gathering about the contribution of the Institute in training the faculty members on various technologies that are being used in industries.



Dr. Rathnakar G, Professor and Head, Mechanical Department, highlighted the importance of latest trends and developments happening in the field of engineering and advised the faculties to make use of this FDP to enhance their knowledge and improve interpersonal relationships among the faculty members of various institutions.



Mr. Srinivasa K, Associate Professor, Mechanical Department welcomed the gathering, Mr. Yathisha N, Assistant Professor, Mechanical Department delivered the vote of thanks and Mr. Rakshith N, Assistant Professor, Mechanical Department was the program Comper.

### Day 1:

During the Morning Session Mr. Vinayak Bhustalimath, Application Engineer, CADD Centre introduced all faculties to Automotive Sketching. Later in the session Mr. Praveen V Application Engineer spoke about different concepts of sketching in automobile design which included perspective sketching – 1 point and 2 point, Car side view, car front view and car 3/4<sup>th</sup> view of Sedan, hatch back and SUV.

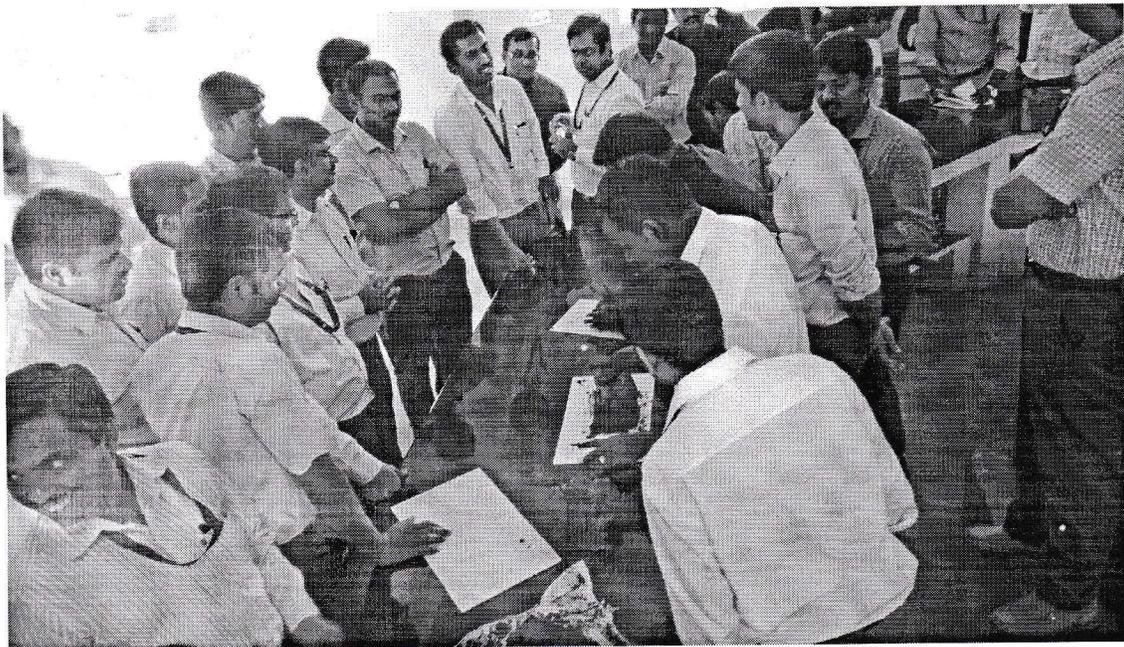
In the Afternoon Mr. Vinayak Bhustalimath, familiarised the faculties with Autodesk – Alias software, and also briefed about the importance of styling, Alias Graphic User Interface (GUI) and terminologies used in Autodesk – Alias.

### Day 2:

In the Morning Session Mr Vidya Shankar, Institutional head, CADD Centre addressed the gathering about 3D Printing technology. 3D printing is the one of the fastest growing technologies, finding its application in the field of rapid prototyping, tooling and many more. They briefed about various 3D printing technologies that are being used in modern industries. Later in the session they also spoke about Computational Fluid Dynamics (CFD), its applications and uses in various engineering fields.

In the Afternoon session Mr. Vinod, Application Engineer, CADD Centre spoke about CFD methodology and introduced the faculties to ANSYS Fluent, Planning the CFD analysis with Fluent taking few application oriented examples.

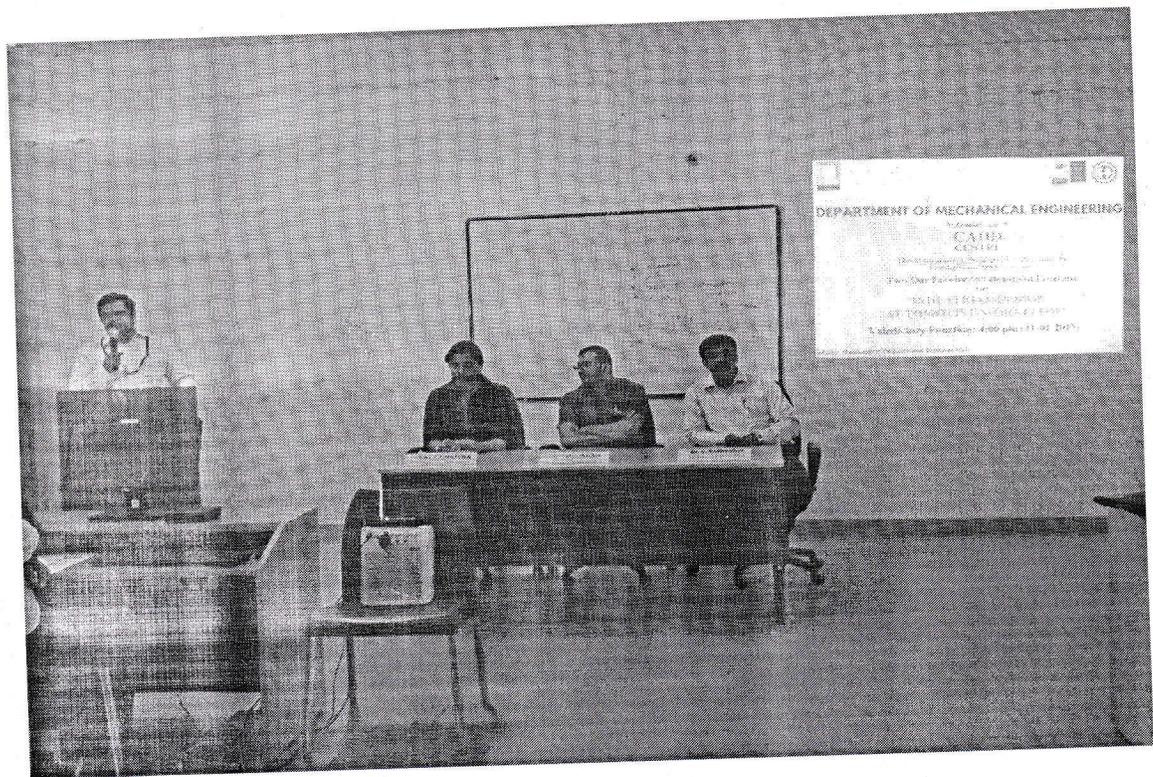
Finally Mr. Praveen V introduced the session in to clay modelling, various concepts related to it and also provided hands on experience to the faculties over proportional modelling.



**Valedictory ceremony:**

In the valedictory ceremony feedback was taken from the participants of various institutes. Later Dr. Rathnakar G appreciated the effort of CADD Centre personnel for carrying out such a program which benefited faculties in improving their knowledge on Industrial Design. Further pros and cons on outcomes of the two day faculty development program were discussed and invited the participants for their active participation in the upcoming events. Finally the ceremony was concluded by distributing certificates to participants.

Mr. Rohith S, Assistant Professor, Mechanical Department delivered the vote of thanks and Mr. Yathisha N, Assistant Professor, Mechanical Department was the program Compere.



*C. Rathnakar*

**H.O.D.**

**Department of Mechanical Engineering  
At C.A.P.E.S. of Engineering, Mysuru**

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Department of Electrical & Electronics Engineering

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REPORT on

*“Recent Developments and Research Challenges in Distributed Generation and Microgrid”*

One week Faculty Development Programme on *“Recent Developments and Research Challenges in Distributed Generation and Microgrid”* was organized by the Department of Electrical & Electronics Engineering of ATME College of Engineering from 24<sup>th</sup> to 29<sup>th</sup> July, 2017.

Dr.L Basavaraj, Principal, ATME College of Engineering, Mysuru was the Chief Guest. In his address he said the importance of organizing such FDP's and staff should gain knowledge from such programs in improving their skills.

Dr.Parthasarathy L, Head, Department of EEE, said it is essential for trained faculty and staff should be aware of the latest trends and scenarios in outside world. This will help in knowledge sharing with students.

**Day-1 (24/07/2017):**

The program was inaugurated by Dr. L Basavaraj, Principal, ATMECE, Mysuru. In the inaugural function the Principal emphasized the need for the innovations in new technology to cater for the needs of the society .The coordinator Mr.Raghavendra L gave a brief introduction of the FDP.

Technical session -1 was started by Dr.A D Srinivasan, Professor, SJCE Mysuru who discussed the “Solar as a DG in smart Microgrid”. He continued his discussion on “Importance of Energy Storage in smart Microgrid” in the technical session – 2. He explored many practical and research innovation ideas on DG and smart grid. He focused on the importance of energy storage in microgrids, which is path breaking research issue in recent times.

**Day-2 (25/7/2017):**

The technical session-3 was handled by Dr.Likith Kumar M V, Associate Professor, SIRMVIT, Bengaluru, with inspirational note on “Smart Grid & Renewable Integration”. In his talk, he discussed smart grid technology areas, smart grid framework model, renewable

energy –the big picture, renewable energy integration challenges & solutions and case study, smart grid project in Karnataka. He highlighted the various opportunities and research challenges in DG & Microgrid. In the afternoon session ,he discussed several control aspects of AC Microgrid which would affect the overall stability. He explained the importance of AC grid stability in abnormal conditions. In the afternoon, the technical session-5, he delivered a lecture on “Research Scope and Stability Issues in Microgrid”. He addressed various research problems.

**Day-3 (26/07/2017):**

Dr. Parthasarathy L, Professor, ATMECE delivered a lecture on “Multi level Inverters for Microgrids” in the technical session-7. In his presentation, he discussed various multi-level inverters for solar PV applications. He continued his session, on “Optimal Distributed Generation & Planning”. Through his presentation, he discussed the basics of microgrids and their classification. He emphasized the importance of DGs in microgrid at distribution level. He briefed about optimal distributed generation using PSO and GA algorithms. He compared and analyzed the simulation results of test system performance using both the algorithms. He discussed the power system-review, operation, control and protection issues, review of Indian power system, WAMS for smart transmission grid, advanced transmission line protection schemes.

**Day-4 (27/07/2017):**

Dr. Likith Kumar M V, Associate Professor , SIRMVIT, Bengaluru started session on “Advanced Protection Schemes for Smart Transmission System”. He discussed several key aspects like transmission line protection practices and issues- technological advancement, motivation and research opportunities, current differential protection scheme (adaptive, distributed model based, equivalent-pi model based, MWAT etc.) using synchronized measurements, distance protection scheme using synchronized measurements for shunt compensated lines and power swing detection and out-of-step protection.

**Day-5 (28/07/2017):**

On day 5 of the FDP Dr. A.S Gopala Rao, Retd. Professor, NIE, Mysuru, discussed the operation and management of Microgrid. He also discussed about Battery storage tank and emphasized on applications of DGMMG.

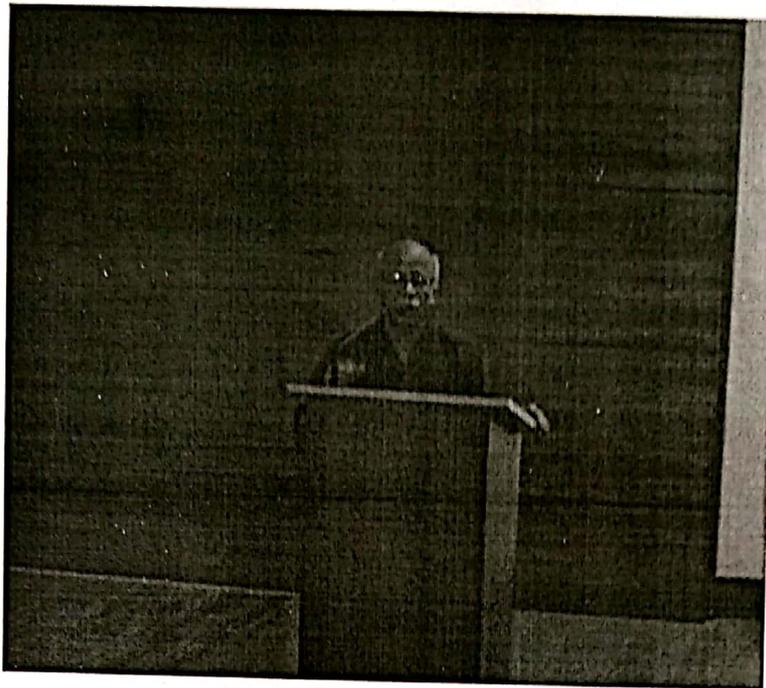
After the tea break the work shop participants were shown videos of smart grids in India.

**Day-6 (29/07/2017):**

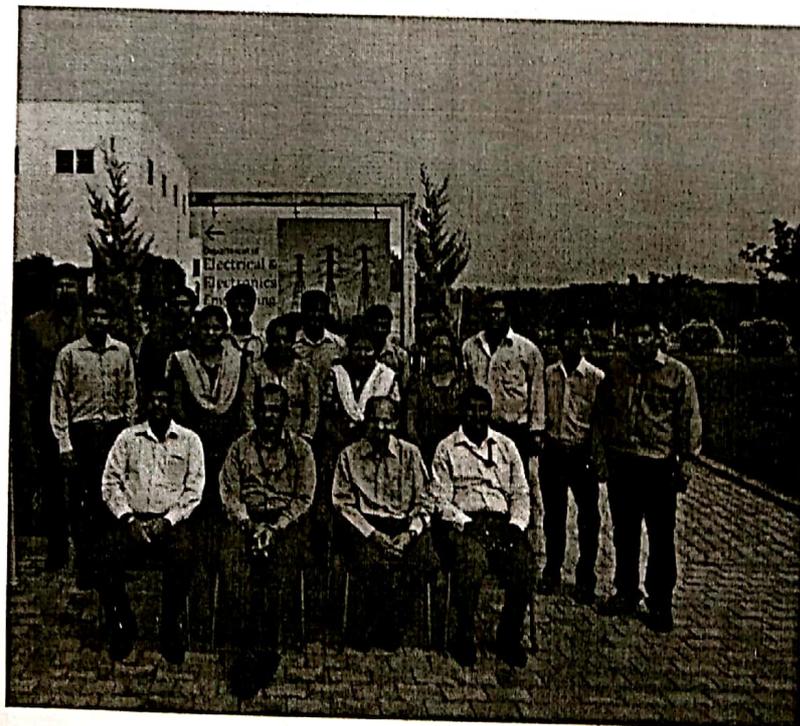
Industry visit to Mahatma Gandhi Institute for Renewable Energy Bengaluru and PRDC, Bengaluru. After the visit, certificates are distributed to participants in the valedictory function.



**Day 1: Dr.L Basavaraj, Principal, ATMECE during the inaugural address**

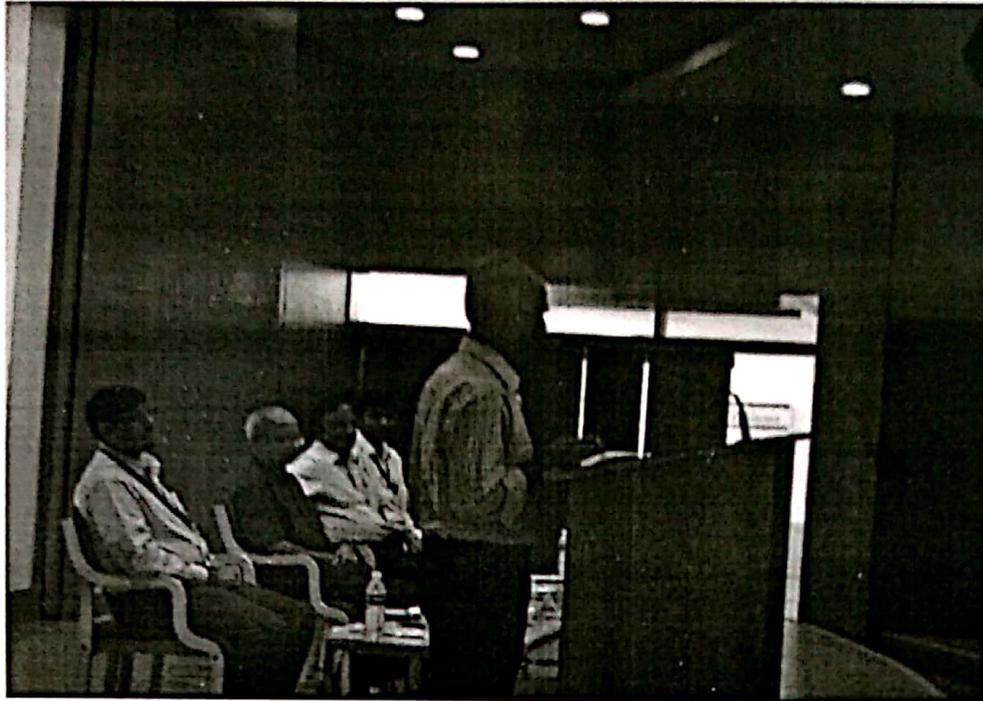


**Pic: Dr. A S Gopala Rao addressing the participants**

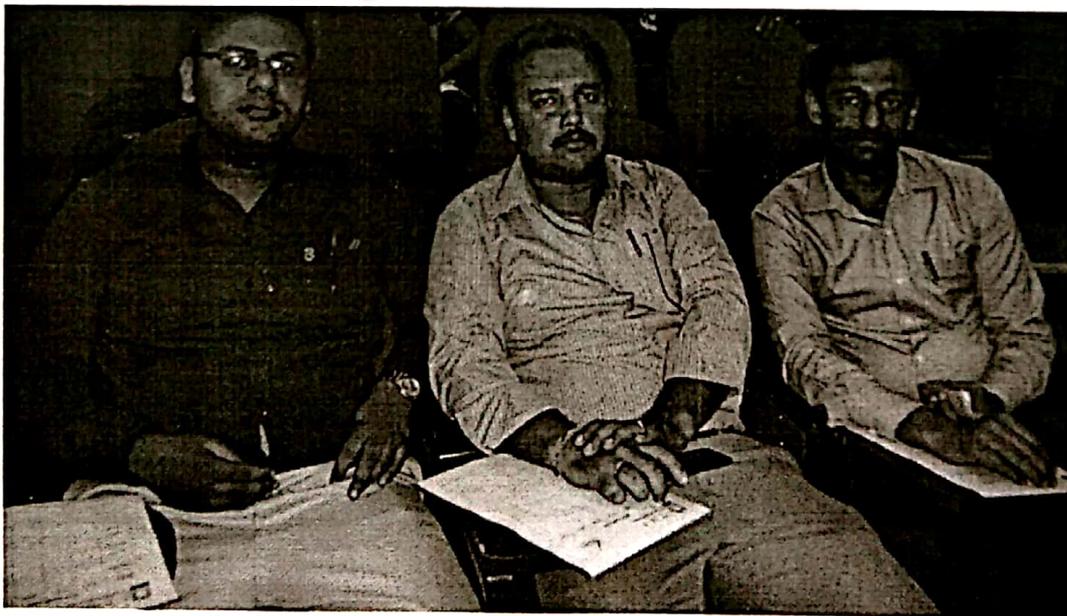


**Pic: Participants of the FDP**

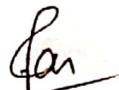
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**Pic: During the FDP Session**



**Pic: During the FDP Session**

  
Dr. PARTHASARATHY L.  
Professor and HOD  
Dept. of Electrical & Electronics Engineering  
ATME College of Engineering, Mysuru