

ALVA'S INSTITUTE OF ENGINEERING  
AND TECHNOLOGY, MOODBIDRI



**MEDINI TECHNOLOGIES MOU**

**Activity Report**

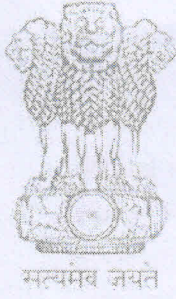
**2022-23**

REPORT ON FUSION 360

**Alva's Institute of Engineering and  
Technology, Moodbidri**



**MEDINI TECHNOLOGIES MOU  
ACTIVITY REPORT ON  
FACULTY DEVELOPMENT PROGRAM:  
FUSION 360  
2022-23**

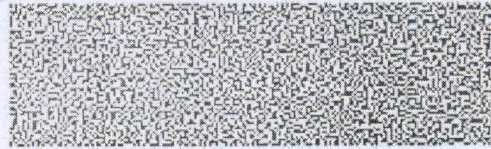
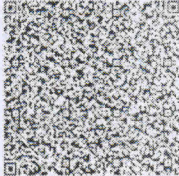


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**Government of Karnataka**

e-Stamp

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| Certificate No.           | : IN-KA29285170328796U                          |
| Certificate Issued Date   | : 05-Feb-2022 12:16 PM                          |
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| Unique Doc. Reference     | : SUBIN-KAKAKSFCL0898377011830631U              |
| Purchased by              | : ALVAS INSTITUTE OF ENGINEERING AND TECHNOLOGY |
| Description of Document   | : Article 37 Note or Memorandum                 |
| Description               | : MEMORANDUM OF UNDERSTANDING                   |
| Consideration Price (Rs.) | : 0<br>(Zero)                                   |
| First Party               | : ALVAS INSTITUTE OF ENGINEERING AND TECHNOLOGY |
| Second Party              | : MEDINI TECHNOLOGIES BANGALORE                 |
| Stamp Duty Paid By        | : ALVAS INSTITUTE OF ENGINEERING AND TECHNOLOGY |
| Stamp Duty Amount(Rs.)    | : 100<br>(One Hundred only)                     |



Authorised Signatory  
For VANSE MATHAS V.V.S.S. Ltd.,  
MOODUBIDIRE-574 227

**Memorandum of Understanding**

This agreement is made on 05<sup>th</sup> Feb 2022



Department Of Mechanical Engineering  
Alva's Institute of Engineering & Technology  
PRINCIPAL

Alva's Institute of Engg. & Technology,  
Hq: MOODUBIDRI - 574 225, D.K.



MEDINI TECHNOLOGIES, BENGALURU



standards and build the brand of the students with their skills. The programs will bridge the gap between industry and academia.

MEDINI TECHNOLOGIES assures the quality industry-oriented program & will play a role of mentor for all kind of programs related to digitalisation, skill development, internships and placement services.

Programs include Training Program on BIM for Infrastructure, BIM for Construction, Digital transformation in Manufacturing Industry, Product Design, Analysis etc.

Duration, commercials and number of students (BE & M.TECH) involved for the training and other events will be discussed mutually and taken forward.

07. Department of Mechanical Engineering, Alva's Institute of Engineering & Technology assures that no commercial projects or activities will be done by them on the software provided by MEDINI TECHNOLOGIES.

08. Both the parties make sure that they will not approach or recruit any employees of respective organization.

09. DURATION- The duration of this Agreement shall be for the period of 4 years from Jan 2022 to Jan 2026. If not renewed or amended after 4 years, in writing the same shall be considered as expired or terminated.

10. MEDINI TECHNOLOGIES will accommodate itself to formulate the curriculum, programs & evaluations, which will support the department for internships, placements & self-branding of the students. All the programs planned will be concerning the need of the industry.

Benefits are mentioned in Annexure-I.

11. Department of Mechanical Engineering, Alva's Institute of Engineering & Technology will assign a Co-Ordinator for regular interaction and program functioning.

This has to be given by HoD on letterhead of Mechanical Engg. Department.

Name:

Designation:

Contact Details: Phone No:

Email ID:

Any changes in this will be intimated in a letter or mail in future also.

12. Mr. Pradeep Kallur, Managing Director, MEDINI TECHNOLOGIES, who is even a member of NEAT, AICTE for evaluation, will be the mentor and Digital Program Coordinator for the complete program at the Department of Mechanical Engineering, Alva's Institute of Engineering & Technology.

The institute will assign a mail ID for the complete set of program, so the licenses and all the communication will be run through the same email id with cc to the college coordinators and head. Medini assures that, it will not be used for any other purpose apart from the programs mentioned in this MoU. (Example: map@iitbbs.ac.in, where map stands for Medini Academic Partner).



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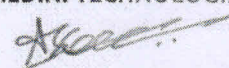
13. Any alteration, addition or modification on this agreement shall be in writing and signed by both the parties.

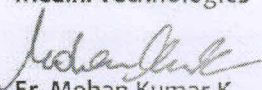
Addressed to:

|                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Department of Mechanical Engineering, Alva's<br>Institute of Engineering & Technology<br>Shobhavana Campus, AIET<br>574225<br><a href="https://www.aiet.org.in/department/mechanical-engineering/">https://www.aiet.org.in/department/mechanical-engineering/</a> | MEDINI TECHNOLOGIES<br>#2943/E, Opp Maruti Mandir, Service Road,<br>Maruti Complex Vijayanagar. Bengaluru 560040<br>Karnataka, INDIA<br>Ph:080-23301005<br><a href="http://www.medini.in">www.medini.in</a> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

14. The parties hereto acting themselves or through representatives duly authorized, have caused this agreement to be signed in their respective names as of the day & year written above.

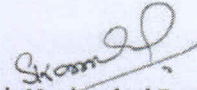
  
Er. Pradeep Kallur  
Managing Director  
MEDINI TECHNOLOGIES

  
Er. Abhinandan Kabbur  
Director  
Medini Technologies

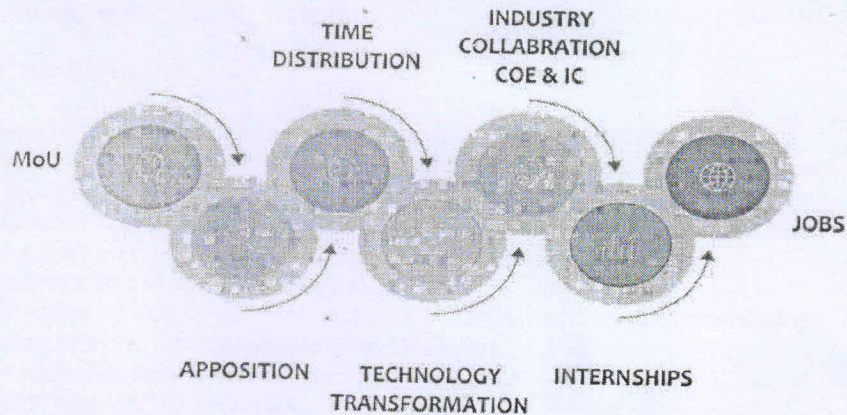
  
Er. Mohan Kumar K  
Head Operations India  
MEDINI TECHNOLOGIES



  
Principal  
Alva's Institute of Engineering & Technology,  
Department of Civil Engineering PRINCIPAL  
Alva's Institute of Engg. & Technology,  
Mijar. MOODBIDRI - 574 225, D.K

  
Head, Mechanical Engineering  
Alva's Institute of Engineering & Technology,  
Department of Civil Engineering  
Dept. Of Mechanical Engineering  
Alva's Institute of Engg. & Technology  
Mijar, MOODBIDRI - 574 225

PROGRAM FLOW CHART:



01. Once an MoU signed we will start working on skill development on digital transformation required for the industry. Which will support for Internships and placements.
02. After successful completion of one year we shall go for CoE Center of Excellence,
  - ✓ Lab setup to connect with professionals and other institutes to bridge an connectivity of multidisciplinary study.
  - ✓ Will be part of Autodesk & Bentley
  - ✓ Industry oriented training to in-house and outside students.
  - ✓ Academic Projects and Internships
03. Incubation Center- A Space for Innovation & Startup.

A space for research, industry and startup teams to collaborate, experiment, and build projects or prototypes. The workshop and studio provide areas for experimenting the innovation using more than 100 products.

  
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Bridging Academia & Industry.



## ANNEXURE II

Work with knowledgeable instructors in quiet classroom settings utilizing sample projects and exercises that emphasize real-world, practical applications

From MEDINI TECHNOLOGIES:

- ✓ College will be a part of all the activities conducted by MEDINI TECHNOLOGIES
- ✓ Students will have a consideration towards memberships with Medini and other joint collaborations
- ✓ Authorized Academic Partners deliver quality professional training from Autodesk Certified Instructors and industry experts to students, educators and customers.
- ✓ Regular updates of new technology in industry
- ✓ Involvement of lecturers in different kinds of activities which will improve their knowledge by meeting different industry people. (FDP, MEET etc)
- ✓ Get a copy of software with license
- ✓ Support for curriculum projects
- ✓ Support for internships
- ✓ Develop your skills with sample projects and exercises that emphasize real-world applications
- ✓ Choose a class at the most appropriate skill level to meet your needs
- ✓ Meet at a time convenient for you, or sign up for custom, on-site training
- ✓ Earn a valuable certificate of completion that's recognized in your profession
- ✓ Validate your product knowledge by getting Autodesk Certified when you take a certification exam at a participating ATC test delivery facility

### Stand out with an Autodesk Certification

- ✓ Earn an industry-recognized credential that helps prove your skill level and can get you hired.
- ✓ Accelerate your professional development and help enhance your credibility and career success.
- ✓ Validate your skills and join an elite team of Autodesk Certified professionals.
- ✓ Display your Autodesk Certified certificate, use the Autodesk Certified logo, highlight your achievement and get noticed by listing your name in the Autodesk Certified Professionals database

### Autodesk Academic Partner

Autodesk Academic Partners help your educational institution shape the future of design and engineering education with training and support tailored to your academic program.

### Product support

Academic Partners use their knowledge of education and learning to help you select the right software tools for your needs, including hands-on support, which enables integration of the technology into your curriculum.

### Project-focused training

Academic Partners provide sample projects and coursework to help you validate your skills, boost career opportunities, and build your experience through a project-focused learning experience.

### Professional and student development

Partners can help students and educators assess and validate their skills through industry-recognized certifications. We can help you build a pool of on-campus educator and student experts in design.

### Bentley Institute Product Training Partner

Bridging Academia & Industry.

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Bentley Institute Product Training Partners are highly qualified to deliver learning opportunities on Bentley's solutions, for industry and academic users in their designated territory. Product Training Partners provide continuous learning opportunities for professionals, supporting career growth and adaptability to the changing needs of their organization and industry. Product Training Partners also help prepare students with the technology skills needed by industry, so they are better equipped for careers as the world's future infrastructure professionals.

**Trimble SketchUp Training & Sales Partner.**

Trimble is a leading provider of advanced location-based solutions that maximize productivity and enhance profitability. Trimble serves a variety of industries including agriculture, engineering and construction, transportation and wireless communications infrastructure. SketchUp is currently used by millions of users annually—ranging from architects to engineering and construction firms to building and design professionals—for designing, modeling and visualizing projects. The course is designed with customized syllabus as per the industry. These courses, with a bucket of knowledge, will improve efficiency of the user.

  
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The MoU is to support and accommodate the industry experts in academics to keep updated the needs of the industry to the upcoming generation regularly & on time. So, the gap between Industry & Academia will be bridged.

Now, this agreement witness as follows:

01. The Department of Mechanical Engineering, Alva's Institute of Engineering & Technology is an education institute conducting the technical programs as mentioned on the college website <https://www.aiet.org.in/>
02. The MEDINI TECHNOLOGIES is a registered company for design services & the School of Design. Working for many of the Pvt. and government organisations on their designs. MEDINI TECHNOLOGIES is also Training, Certification & Academic partner of Autodesk, Bentley & Trimble SketchUp. And the MEDINI TECHNOLOGIES has also partnered with a PMI Global Registered Provider for Project Management.



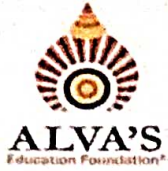
03. Medini Technologies also have an MoU with AICTE for bridging Academia & Industry. Which in turn support the technical institutes for skill development and internships.
04. The MEDINI TECHNOLOGIES will support the Department of Mechanical Engineering, Alva's Institute of Engineering & Technology for bridging academia and industry by providing necessary software's of Autodesk & Bentley as the MEDINI TECHNOLOGIES is an Academic partner, which will support their students to accommodate themselves in the industry. All the details of software installations will be mailed by MEDINI TECHNOLOGIES, which can be used for any kind of accreditations or inspections such as LIC, NAAC, NBA, and COA etc. Department of Mechanical Engineering, Alva's Institute of Engineering & Technology permits MEDINI TECHNOLOGIES to handle all the communication relating to the software's which is from the above-mentioned companies. Both the party assures that the software installed by MEDINI TECHNOLOGIES will be used only by them Department of Mechanical Engineering, Alva's Institute of Engineering & Technology & MEDINI TECHNOLOGIES. By any chance no other organisation is authorized to use the software's.
05. Here-on both parties will be called as Digital Education Partner with which Department of Mechanical Engineering, Alva's Institute of Engineering & Technology permits MEDINI TECHNOLOGIES to conduct programs related to industry requirements.
06. To keep the MoU active, minimum 3 programs has to be conducted every year, this will build strong relation with industries, keep up to date students on latest trends and align the industry Bridging Academia & Industry.

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# **ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY**

(Unit of Alva's Education Foundation (R), Moodbidri)

Shobhavana Campus, MIJAR-574225, Moodbidri, D.K., Karnataka

Affiliated to VTU, Belagavi & Approved by AICTE New Delhi.

Recognized by Govt. of Karnataka.

## **Faculty Development Program Report: Fusion 360**

### **Program Overview**

**Date:** 25-08-2022

**Duration:** 1 Day

**Organized by:** Department of Mechanical Engineering

### **Introduction**

The Faculty Development Program on Fusion 360 was organized with the primary goal of enhancing the proficiency and expertise of educators in the field of design and engineering. Fusion 360 is a cutting-edge Computer-Aided Design (CAD) and Computer-Aided Manufacturing (CAM) software developed by Autodesk. It offers a powerful platform for 3D modeling, simulation, and collaboration, making it a valuable tool for engineers, designers, and educators alike.

### **Program Objectives**

- **Skill Enhancement:** To equip faculty members with advanced skills in using Fusion 360 for design and engineering projects.
- **Curriculum Integration:** To enable participants to integrate Fusion 360 effectively into their teaching curriculum.
- **Research Opportunities:** To explore research possibilities using Fusion 360 in areas such as product design, prototyping, and simulation.
- **Networking:** To foster collaboration and knowledge sharing among faculty members from various institutions.

### **Program Agenda**

The Faculty Development Program on Fusion 360 was structured to cover a wide range of topics over its duration. The following are some of the key components of the program:

**Introduction to Fusion 360:** A comprehensive overview of Fusion 360, its interface, and its capabilities.

**Basic to Advanced Modeling:** Hands-on sessions covering basic sketching to advanced 3D modeling techniques.

**Simulation and Analysis:** Exploring the simulation and analysis tools within Fusion 360 for product testing and validation.

**CAM and Prototyping:** Understanding how Fusion 360 can be used for Computer-Aided Manufacturing and prototyping.



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**Collaboration Tools:** A look at collaboration features and cloud-based capabilities to facilitate teamwork.

**Curriculum Integration:** Strategies for integrating Fusion 360 into existing course structures.

**Research Applications:** Identifying research opportunities and case studies involving Fusion 360.

### **Program Outcomes**

- The Faculty Development Program on Fusion 360 yielded several notable outcomes:
- **Enhanced Skills:** Participants gained proficiency in using Fusion 360 for design, modeling, simulation, and prototyping.
- **Curriculum Enhancement:** Faculty members developed strategies to integrate Fusion 360 into their teaching, enriching their course offerings.
- **Research Initiatives:** Participants identified potential research projects and collaborations in areas such as product design and simulation.
- **Knowledge Exchange:** The program facilitated networking and knowledge sharing among faculty members from various institutions.
- **Real-World Applications:** Faculty members gained insights into how Fusion 360 is being used in the industry through guest lectures.

The Faculty Development Program on Fusion 360 was a resounding success, achieving its objectives of enhancing faculty skills, promoting curriculum integration, and fostering research initiatives. The program provided educators with the tools and knowledge to stay current with technological advancements in design and engineering. As Fusion 360 continues to evolve, these faculty members are well-equipped to prepare the next generation of engineers and designers with the skills needed to excel in their fields.

This program serves as a model for future faculty development initiatives in emerging technologies, demonstrating the value of continuous learning and collaboration in the academic

  
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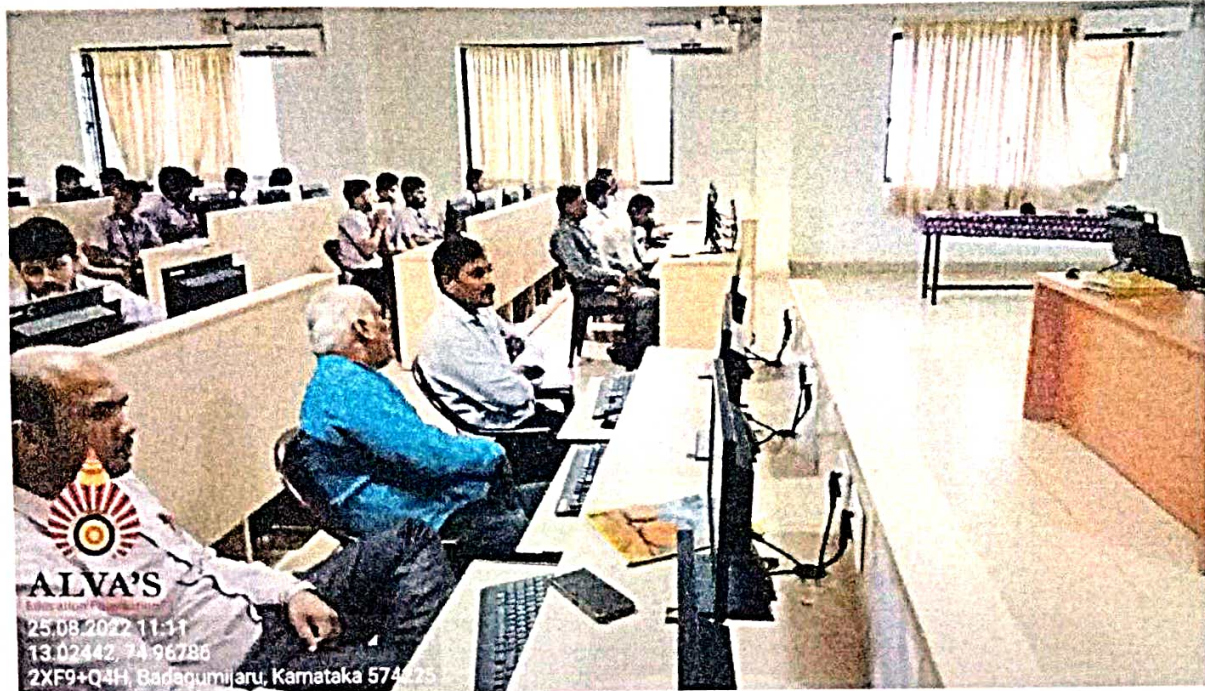
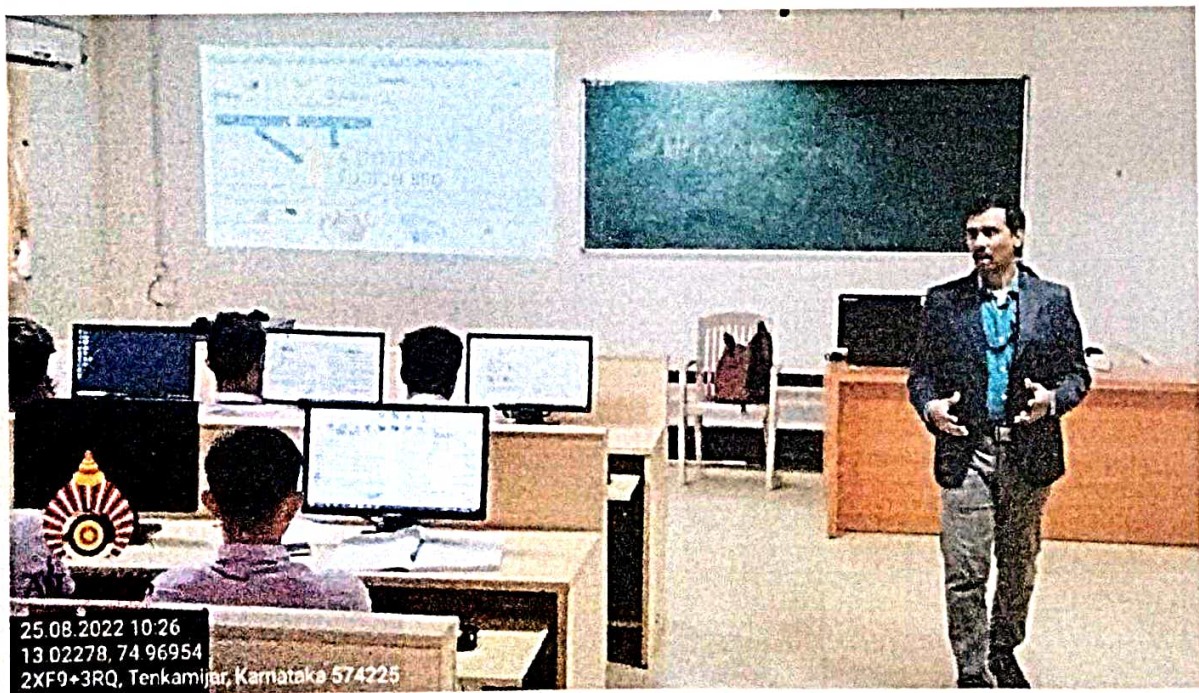


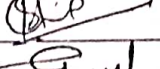
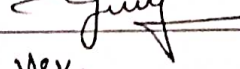
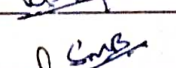
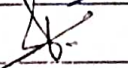
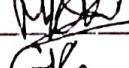
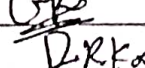
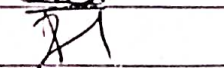
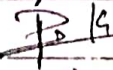
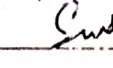
Fig. Glimpse of Training program

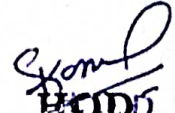


  
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## Department of Mechanical Engineering

### Faculty Attendance

| Sl.No. | Faculty Name               | Signature                                                                            |
|--------|----------------------------|--------------------------------------------------------------------------------------|
| 1      | Dr. Satyanarayana          |    |
| 2      | Mr. Veerendra kumar        |    |
| 3      | Mr. Sharathechandra Prabhu |    |
| 4      | Mr. G. B. Vaggar           |    |
| 5      | Mr. Hemanth Suvarna        |    |
| 6      | Mr. Suresh P S             |    |
| 7      | Mr. Sadashiv Bellubbi      |   |
| 8      | Mr. Kiran C H              |  |
| 9      | Mr. Pramod Badyankal       |  |
| 10     | Mr. M.R. Ganesh            |  |
| 11     | Mr. Kumar Swamy M.C        |  |
| 12     | Mr. Gopal Krishna U.B      |   |
| 13     | Mr. Deepak Kothari         |  |
| 14     | Mr. Srinivas C S           |  |
| 15     | Mr. Pramod kumar N         |  |
| 16     | Mr. Praveen K C            |  |
| 17     | Mr. Sudheer PN             |  |

  
**HOD**  
HOD, Mechanical Engineering  
Alva's Institute of Engg. & Technology  
Mijar, MOODBIDRI - 574 225