

**ALVA'S INSTITUTE OF ENGINEERING AND
TECHNOLOGY**

Shobhavana Campus, Mijar – 574225, Moodbidri.

Dakshina Kannada Karnataka, India.



Department of Mechanical Engineering

CERTIFICATION COURSE

on

“Hands on Fabrication Work”

ACADEMIC YEAR

2019-2020

Date: 15/Sept/2019

Place: AIET, Moodbidri.

APPROVAL LETTER

To,

The Principal,
AIET, Moodbidri

Respected Sir,

Sub: - Approval for Organizing the Students Certification/Training Program on
"Hands on Fabrication Work Workshop"-Reg.

With reference to the subject cited above, I would like to bring to your kind notice that, the Department is planning to host a Student Training Program/certification course on **"Hands on Fabrication Work"** from **"27th September 2019 to 1st October 2019"**.

Kindly consider the above request and approve the same for further proceedings.

Thanking you Sir.

Coordinator:

Mr. Veerendra Kumar

Mr. K V Suresh

Principal:

PRINCIPAL

Alva's Institute of Engg. & Technology,
Mijar, MOODBIDRI - 574 225, P.K

Head of the Department:

Skam
H. O. D.
Dept. Of Mechanical Engineering
Alva's Institute of Engg. & Technology
Mijar, MOODBIDRI - 574 225



ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY

Shobhavana Campus, Mijar, Moodbidri - 574 225

Phone: 08258-262725 Fax: 08258-262726

DEPARTMENT OF MECHANICAL ENGINEERING

Dated: 15/sep/2019

CIRCULAR

The Certification course/ Workshop on **Hands on Fabrication Work**, will be conducting from **27th Sepetmber 2019 to 1st October 2019** in **Fabrication Lab**, Mech block, AIET, Mijar. All registered students are hereby informed to attend and actively participate in the course.


(HOD)

H. O. D.

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

Resource Person

Mr. Veerendra Kumar & Mr K V Suresh

AIET, Moodbidri

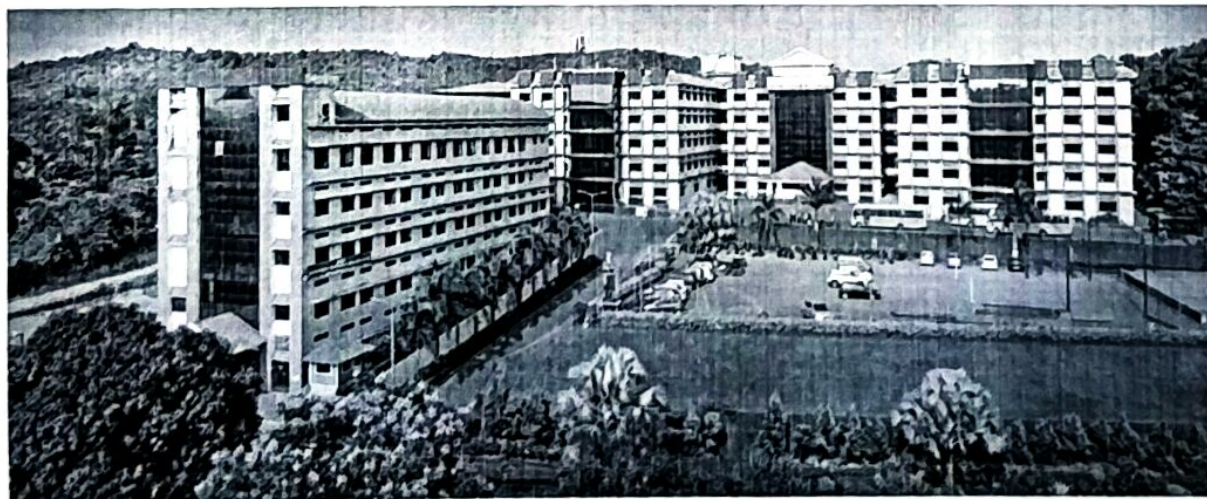
Coordinators:

1. Prof. Hemanth S, AIET
2. Prof. B G Keshavanth

ABOUT THE INSTITUTION

Alva's Education Foundation (AEF) established in 1995 with the vision of our Chairman Dr. M. Mohan Alva has succeeded in making Moodbidri, an Educational hub in the South Canara Region, with more than 25000 students pursuing various courses ranging from primary school to post-graduate courses in social sciences, pure sciences, engineering and management. There are 21 institutions functioning under the Alva's Education Foundation.

Alva's Institute of Engineering and Technology, Moodbidri is a Premier Engineering Institute of Alva's Education Foundation, established in the year 2008. The college is certified to the ISO 9001: 2008 standards. The institute offers top quality education in five under graduate programs in Engineering- Computer Science, Civil, Electronics & Communications, Information Science, and Mechanical Engineering- Three Post Graduate programs- Master of Technology in Thermal Power Engineering, Computer Science & Engineering, VLSI Design Embedded System and Master of Business Administration.



Alva's Institute of Engineering
and Technology, Moodbidri



**5 days Certification
course/Workshop on**

" Hands on Fabrication Work

From 27th Sep to 1st Oct 2019

Organized by

Department of Mechanical Engineering

**Venue: Fabrication lab, Mech Building,
Mijar**

ABOUT ME DEPARTMENT

The Department was started in the year 2008. Department of Mechanical Engineering was established in the year 2008 with an intake of 60 and has enhanced to 180 from academic year 2012-13. The Post Graduate course, M.Tech in Thermal Power Engineering was introduced from the academic year 2012-13 with an intake of 18 students. Department is recognized as a research centre by VTU. Department is actively involved in Curricular and extracurricular activities in associations with professional bodies. The main objective of the department is to provide academic excellence, knowledge and nurture talent in the area of Mechanical Engineering. The department has started Bio Diesel research testing centre in the campus to explore in the area of Alternative Fuels.

Department vision is to develop Quality Mechanical Engineers to meet the ever growing and ever changing needs of the economy. The Department is committed to provide high quality technical education at under graduate and post graduate level by means of state of art curriculum with best teaching-learning process.

COURSE CONTENT

Sheet Metal Work
Basic of Hand Tools
Design Basics
Sheet Metal Equipments

PROGRAM SCHEDULE

27-September- 2019

Inauguration: 09:30 am to 10:00 am
Keynote Address: 10:00 am to 11:00 am
Tea Break: 11:00 am to 11:15 am
Session 1: 11:15 am to 01:00 pm
Lunch Break: 01:00 pm to 02:00 pm
Session 2: 02:00 pm to 05:00 pm

28-September- 2019

Session 3: 09:00 am to 11:00 am
Tea Break: 11:00 am to 11:20 am
Session 4: 11:20 am to 01:00 pm
Lunch Break: 01:00 pm to 02:00 pm
Session 5: 02:00 pm to 05:00 pm

29-September- 2019

Session 6: 09:00 am to 11:00 am
Tea Break: 11:00 am to 11:20 am
Session 7: 11:20 am to 01:00 pm
Lunch Break: 01:00 pm to 02:00 pm
Session 8: 02:00 pm to 05:00 pm

30-September- 2019

Session 9: 09:00 am to 11:00 am
Tea Break: 11:00 am to 11:20 am
Session 10: 11:20 am to 01:00 pm
Lunch Break: 01:00 pm to 02:00 pm
Session 11: 02:00 pm to 05:00 pm

01-October- 2019

Session 12: 09:00 am to 11:00 am
Tea Break: 11:00 am to 11:20 am
Session 13: 11:20 am to 01:00 pm
Lunch Break: 01:00 pm to 02:00 pm
Session 14: 02:00 pm to 05:00 pm

VISION OF THE DEPARTMENT

Impart Quality Technical Education to excel in Mechanical Engineering to meet the needs of the community

MISSION OF THE DEPARTMENT

1. Empower student knowledge in basic and applied areas of Mechanical Engineering
2. Strengthening collaboration with industries, research organizations and institutes for internship, joint research and consultancy
3. To inculcate entrepreneurial skills and human values in order to cater the needs of society
4. Exposure to industrial practices for managerial skills and professionalism



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Shobhavana Campus, Mijar, Moodbidri, D.K - 574225

Phone: 08258-262725, Fax: 08258-262726

DEPARTMENT OF MECHANICAL ENGINEERING

Attendance List Of Students For Hands on Fabrication Work workshop

SLN	USN	NAME
1.	4AL15ME097	Yeshwanth M
2.	4AL16ME003	Abhishek H Shetty
3.	4AL16ME004	Ajay Paul
4.	4AL16ME006	Akhil Mohan
5.	4AL16ME007	Anil Kumar
6.	4AL16ME009	Bavini
7.	4AL16ME010	Blesson Xavier
8.	4AL16ME011	Chandrashekar Kulal
9.	4AL16ME012	Chethan N
10.	4AL16ME013	Chinmaya G A
11.	4AL16ME014	Chirag Poojari
12.	4AL16ME015	Moolya Divyaraj R
13.	4AL16ME016	Ganesh V K
14.	4AL16ME017	Harikrishna Raju
15.	4AL16ME018	S A Hithesh Raj
16.	4AL16ME019	Karthik S Mendon
17.	4AL16ME020	Kevin Joseph Lobo
18.	4AL16ME021	Kiran Kumar
19.	4AL16ME022	Kishore Kumar A
20.	4AL16ME024	Manil U
21.	4AL16ME028	Manojgowda K N
22.	4AL16ME029	Manoj Kumar D
23.	4AL16ME031	Mervin Lawrence D' A
24.	4AL16ME032	Mohammad Faiz
25.	4AL16ME033	Moosa Nizamuddin
26.	4AL16ME035	Nagasundar K S
27.	4AL16ME036	Naveen A
28.	4AL16ME038	Naveen H R
29.	4AL16ME040	Nikhil H S
30.	4AL16ME043	Parthasarathy D J
31.	4AL16ME044	Poojari Prashant S
32.	4AL16ME045	Poojary Hiten Umesh
33.	4AL16ME048	Prashanth Naik K
34.	4AL16ME049	Pujeeth Kulal
35.	4AL16ME050	Mehta Raj Kamlesh
36.	4AL16ME051	Rajath Rai
37.	4AL16ME052	Rakesh

[Signature]
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DEPARTMENT OF MECHANICAL ENGINEERING

38.	4AL16ME092	Vijaylakshmi
39.	4AL16ME053	Rakesh A
40.	4AL16ME054	Rakesh R
41.	4AL16ME057	Rakshith
42.	4AL16ME059	Rakshith Kotain
43.	4AL16ME060	Rakshith R
44.	4AL16ME061	Ravi Nimboni
45.	4AL16ME063	S Nikhilesh
46.	4AL16ME064	Sachin B U
47.	4AL16ME065	Sagar M
48.	4AL16ME066	Sanjay S
49.	4AL16ME067	Santhosh G B
50.	4AL16ME068	Santhosh C
51.	4AL16ME069	Shaik Mohamad S
52.	4AL16ME070	Shetty Adit Arvind
53.	4AL16ME071	Shetty Akash V
54.	4AL16ME072	Shetty Gaurav
55.	4AL16ME073	Shetty Manoj M
56.	4AL16ME074	Shetty Pranay R
57.	4AL16ME075	Shetty Pratik J
58.	4AL16ME076	Shetty Rohith J
59.	4AL16ME077	Shikhar V Raj Jain
60.	4AL16ME078	Shivakumar Kataraki
61.	4AL16ME080	Sohan Poojari S S
62.	4AL16ME081	Sonal Tomy
63.	4AL16ME082	Soufia N Shaikh
64.	4AL16ME084	Sudheera
65.	4AL16ME085	Sharma Sunny R
66.	4AL16ME086	Tanay S K
67.	4AL16ME087	Tejas B
68.	4AL16ME088	Thejesh R
69.	4AL16ME089	U Gobind
70.	4AL16ME090	Udayakumar L A
71.	4AL16ME091	Venkatesh Ragam

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DEPARTMENT OF MECHANICAL ENGINEERING

Attendance List Of Students for Hands on Fabrication Work workshop

SLN	USN	NAME	27-09-19		28-09-19		29-09-19		30-09-19		31-09-19		01-09-19	
			FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN
1.	4AL16ME051	Rajath Rai	P	P	P	P	P	P	P	P	A	A	P	P
2.	4AL16ME052	Rakesh	P	P	P	P	A	A	P	P	P	P	P	P
3.	4AL16ME092	Vijaylakshmi	P	P	P	P	P	P	P	P	P	P	P	P
4.	4AL16ME053	Rakesh A	P	P	P	P	P	P	P	P	P	P	P	P
5.	4AL16ME054	Rakesh R	P	P	P	P	P	P	P	P	P	P	P	P
6.	4AL16ME057	Rakshith	P	P	P	P	P	P	P	P	P	P	P	P
7.	4AL16ME059	Rakshith Kotain	P	P	P	P	P	P	P	P	P	P	P	P
8.	4AL16ME060	Rakshith R	P	P	P	P	P	P	P	P	P	P	P	P
9.	4AL16ME061	Ravi Nimboni	P	P	P	P	P	P	P	P	P	P	P	P
10.	4AL16ME063	S Nikhilesh	A	A	P	P	P	P	P	P	A	A	P	P
11.	4AL16ME064	Sachin B U	P	P	P	P	P	P	P	P	A	A	P	P
12.	4AL16ME065	Sagar M	P	P	P	P	P	P	P	P	A	A	A	A
13.	4AL16ME066	Sanjay S	P	P	P	P	P	P	P	P	P	P	P	P
14.	4AL16ME067	Santhosh G B	P	P	P	P	P	P	P	P	P	P	P	P
15.	4AL16ME068	Santhosh C	P	P	P	P	P	P	P	P	P	P	P	P
16.	4AL16ME069	Shaik Mohamad S	P	P	P	P	P	P	P	P	P	P	P	P
17.	4AL16ME070	Shetty Adit Arvind	P	P	P	P	P	P	P	P	P	P	P	P
18.	4AL16ME071	Shetty Akash V	P	P	A	A	P	P	P	P	P	P	A	A
19.	4AL16ME072	Shetty Gaurav	P	P	P	P	A	A	P	P	P	P	P	P
20.	4AL16ME073	Shetty Manoj M	P	P	P	P	P	P	P	P	P	P	P	P
21.	4AL16ME074	Shetty Pranay R	P	P	P	P	P	P	P	P	P	P	P	P
22.	4AL16ME075	Shetty Pratik J	P	P	P	P	P	P	P	P	P	P	P	P
23.	4AL16ME076	Shetty Rohith J	P	P	P	P	P	P	P	P	P	P	P	P
24.	4AL16ME077	Shikhar V Raj Jain	P	P	P	P	P	P	P	P	P	P	P	P
25.	4AL16ME078	Shivakumar Kataraki	P	P	P	P	P	P	A	A	P	P	P	P
26.	4AL16ME080	Sohan Poojari S S	P	P	P	P	P	P	P	P	P	P	A	A
27.	4AL16ME081	Sonal Tomy	P	P	P	P	A	A	P	P	P	P	P	P
28.	4AL16ME082	Soufia N Shaikh	P	P	P	P	P	P	P	P	P	P	P	P
29.	4AL16ME084	Sudheera	P	P	P	P	P	P	P	P	P	P	P	P
30.	4AL16ME085	Sharma Sunny R	P	P	P	P	P	P	P	P	P	P	P	P
31.	4AL16ME086	Tanay S K	P	P	P	P	P	P	P	P	P	P	P	P
32.	4AL16ME087	Tejas B	P	P	P	P	P	P	P	P	P	P	P	P
33.	4AL16ME088	Thejesh R	P	P	P	P	P	P	A	A	P	P	P	P
34.	4AL16ME089	U Gobind	P	P	P	P	P	P	P	P	P	P	P	P
35.	4AL16ME090	Udayakumar L A	P	P	P	P	P	P	P	P	P	P	P	P
36.	4AL16ME091	Venkatesh Ragam	P	P	P	P	P	P	P	P	P	P	P	P

Handwritten signature
H.O.D.

Dept. Of Mechanical Engineering
Alva's Institute of Engineering & Technology
Mijar, MOODBIDRI



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DEPARTMENT OF MECHANICAL ENGINEERING

Attendance List Of Students For Hands on Fabrication Work workshop

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1.	4AL15ME097	Yeshwanth M	/	/	/	/	/	/	/	/	/	/	/	/
2.	4AL16ME003	Abhishek H Shetty	/	/	/	/	/	/	/	/	/	/	/	/
3.	4AL16ME004	Ajay Paul	/	/	/	A	/	/	/	/	/	/	/	/
4.	4AL16ME006	Akhil Mohan	/	/	/	/	/	A	/	/	/	/	/	/
5.	4AL16ME007	Anil Kumar	/	/	/	/	/	/	/	/	/	/	/	/
6.	4AL16ME009	Bavini	P	P	P	P	P	P	P	P	P	P	P	P
7.	4AL16ME010	Blesson Xavier	P	P	P	P	P	P	A	P	P	P	P	P
8.	4AL16ME011	Chandrashekar Kulal	P	P	P	P	P	P	P	P	P	P	P	P
9.	4AL16ME012	Chethan N	P	P	P	P	P	P	P	P	P	P	P	P
10.	4AL16ME013	Chinmaya G A	P	P	P	P	P	P	P	P	P	P	P	A
11.	4AL16ME014	Chirag Poojari	P	P	P	P	P	P	P	P	P	P	P	P
12.	4AL16ME015	Moolya Divyaraj R	P	P	P	P	P	P	P	P	P	A	P	P
13.	4AL16ME016	Ganesh V K	P	P	P	P	P	P	P	P	P	P	P	P
14.	4AL16ME017	Harikrishna Raju	P	P	P	P	P	P	P	P	P	P	P	P
15.	4AL16ME018	S A Hithesh Raj	P	P	P	P	P	P	P	P	P	P	P	P
16.	4AL16ME019	Karthik S Mendon	P	P	P	P	P	P	P	A	A	P	P	P
17.	4AL16ME020	Kevin Joseph Lobo	P	P	P	P	P	P	P	P	P	P	P	P
18.	4AL16ME021	Kiran Kumar	P	P	P	P	A	A	P	P	P	P	P	P
19.	4AL16ME022	Kishore Kumar A	P	P	P	P	P	P	P	P	P	P	P	P
20.	4AL16ME024	Manil U	P	P	P	P	P	P	P	P	P	P	P	P
21.	4AL16ME028	Manojgowda K N	P	P	P	P	P	P	P	P	P	P	P	P
22.	4AL16ME029	Manoj Kumar D	P	P	P	P	P	P	P	P	P	P	P	P
23.	4AL16ME031	Mervin Lawrence D' A	P	P	P	P	P	P	P	P	P	P	P	P
24.	4AL16ME032	Mohammad Faiz	P	P	P	P	P	P	P	P	P	A	A	P
25.	4AL16ME033	Moosa Nizamuddin	P	P	P	P	P	P	P	P	P	P	P	P
26.	4AL16ME035	Nagasundar K S	P	P	P	P	P	P	P	P	P	P	A	A
27.	4AL16ME036	Naveen A	P	P	P	P	P	P	P	P	P	P	P	P
28.	4AL16ME038	Naveen H R	P	P	P	P	P	P	P	P	P	P	P	P
29.	4AL16ME040	Nikhil H S	P	P	P	P	P	P	P	P	P	P	P	P
30.	4AL16ME043	Parthasarathy D J	P	P	P	P	P	P	P	P	P	P	P	P
31.	4AL16ME044	Poojari Prashant S	P	P	A	A	P	P	P	P	P	P	P	P
32.	4AL16ME045	Poojary Hiten Umesh	P	P	P	P	P	P	P	P	P	P	P	P
33.	4AL16ME048	Prashanth Naik K	P	P	P	P	P	P	P	P	P	P	P	P
34.	4AL16ME049	Pujeeth Kulal	A	A	P	P	P	P	P	P	P	P	P	P
35.	4AL16ME050	Mehta Raj Kamlesh	P	P	P	P	P	P	P	P	P	P	P	P

Scored
H.O.D.

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Name:- Naga Suresh . K . S
USN:- 4AL16ME035



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DEPARTMENT OF COMPUTER MECHANICAL ENGINEERING

Quiz on Hands on Fabrication Work Workshop

1. An Alloy is What?

- ☒ A. A mixture of two or more metals ✓
- ☐ B. 1 metal ingredient
- ☐ C. Non Rustic
- ☐ D. A mixture of three or more metals

2. Sheet metal is broken down into the following five phases: Planning and layout, fabrication, assembly, repair/maintenance, and what?

- ☐ A. Design
- ☐ B. Structure
- ☐ C. Cost
- ☒ D. Installation ✓

3. Also know as scribes, it's used for marking lines on sheet metal. What hand tool is it?

- ☒ A. Scratch Awl ✓
- ☐ B. Ring Awl
- ☐ C. Socket Scratch Awl
- ☐ D. Shank Awl

4. What Tool is Shown in the photo?

- ☒ A. Steel Square ✓
- ☐ B. Angle Square
- ☐ C. Trammel
- ☐ D. Scriber

5. It is used to draw long arcs and circles, is also called a beam compass?

- ☐ A. Pointer
- ☐ B. Compass
- ☒ C. Trammel Points ✓
- ☐ D. Arc Scriber

6. Used for grooving a seam by hand and come in various sizes. What is this tool?

- ☒ A. Groove Seamer ✓
- ☐ B. Hand Groover
- ☐ C. Groover

D. Seam Groover

7. Used to draw, finish and deburr rivets and comes in variety sizes.

- ☐ A. Chisel
- ☒ B. Rivet Hammer ✓
- ☐ C. Rivet Set
- ☐ D. Set Rivet

8. May be either straight or combination blade snips. Used for routine cutting on 26 Gauge or lighter. What type of snips?

- ☒ A. General Purpose Snips ✓
- ☐ B. Aviation Snips
- ☐ C. 30 Degree Snips
- ☐ D. Bull Dog Snips

9. Come in left handed (green), right handed (red), and straight cutting (yellow) and are used for cutting small irregular curves, including corners of 90 degree angles.

- ☐ A. General Purpose Snips
- ☒ B. Bulldog Snips ✓
- ☐ C. Aviation Snips
- ☐ D. Dove Tail Snips

10. This file is all purpose, single cut file and used for finish filing. What kind file is it?

- ☒ A. Mill File ✓
- ☐ B. Knife File
- ☐ C. Three Square File
- ☐ D. Flat File

11. Bend Radius is the degree of sharpness or square in the finished bend. There must be an allowance for the sheet metal that is being bent; this allowance is known as what?

- ☒ A. Bend Radius ✓
- ☐ B. Pittsburgh Pocket Bend
- ☐ C. Overall Radius
- ☐ D. The Setback



2. Uzunluq - uzunluq
2. Yerli - yerli

- A. Mill Cut File
B. Single Cut File ✓
C. Double Cut File
D. Flat Cut File

Training Evaluation Form

Date: 27th Sept - 1st Oct 2019

Title: Hands on Fabrication Work.

Trainer: Veerendra Kumar & K.V. Suresh.

Instructions: Please indicate your level of agreement with the statements listed below in #1-11.

	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
1. The objectives of the training were clearly defined.	☒	☐	☐	☐	☐
2. Participation and interaction were encouraged.	☐	☒	☐	☐	☐
3. The topics covered were relevant to me.	☐	☐	☒	☐	☐
4. The content was organized and easy to follow.	☐	☒	☐	☐	☐
5. The materials distributed were helpful.	☐	☒	☐	☐	☐
6. This training experience will be useful in my work.	☐	☒	☐	☐	☐
7. The trainer was knowledgeable about the training topics.	☐	☒	☐	☐	☐
8. The trainer was well prepared.	☒	☐	☐	☐	☐
9. The training objectives were met.	☐	☒	☐	☐	☐
10. The time allotted for the training was sufficient.	☐	☐	☒	☐	☐
11. The meeting room and facilities were adequate and comfortable.	☐	☒	☐	☐	☐

12. What did you like most about this training?

Practical way of teaching.

13. What aspects of the training could be improved?

With time duration still more.

14. How do you hope to change your practice as a result of this training?

— N/A —

15. What additional trainings would you like to have in the future?

With simulation in software along with hardware.

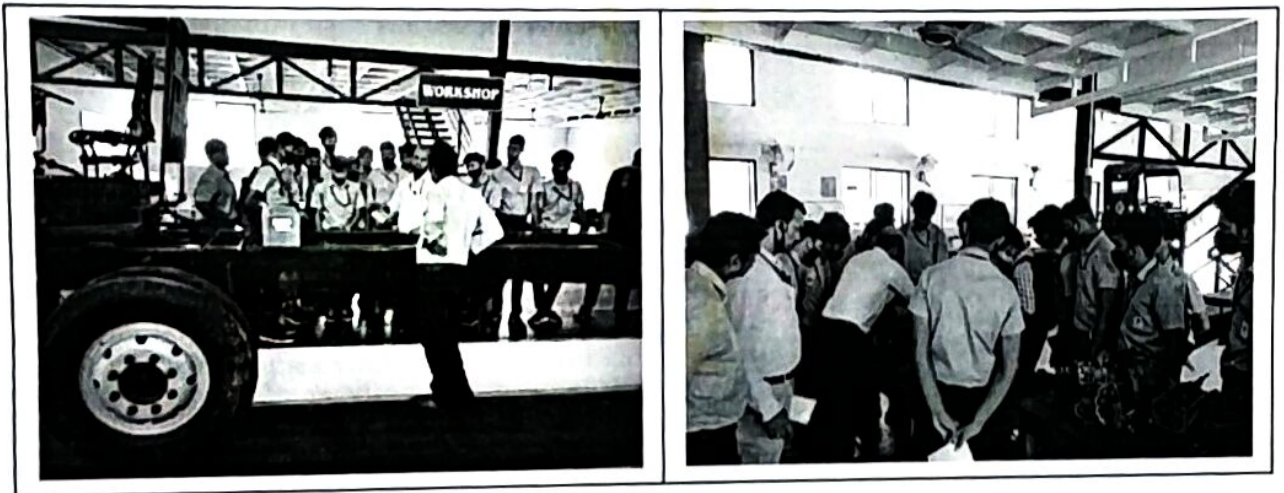
16. Please share other comments or expand on previous responses here:

—

Thank you for your feedback!

**REPORT ON
Hands on Fabrication Work**

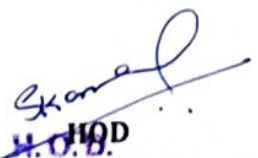
Department of Mechanical Engineering, AIET, Mijar organized a 5 days Certification Course/Workshop on "Hands on Fabrication Work" s on 27th Sep to 1st Oct 2019. The workshop/certification course was inaugurated by, Dr. Satyanarayan, from Dept. ME and all staff members and student volunteers were also present during the inauguration function and also total 71 participants had been attended this certification course.



For candidates especially for Mechanical Engineering fabrication is very important. Students will be able to work on hand tools, bolts, nuts and screws, cans, cutlery, pipes and pipes fittings, metal windows and doors, equipment attachments. The fabrication plays a large role in mass consumption of products for commercial, industrial and structural purposes.



Coordinator



H.O.D.

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



ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

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Department of Mechanical Engineering

ACADEMICS YEAR 2019-20

Summary Report of Add-on / Certificate program with its Outcomes

Title of the Course : HANDS ON FABRICATION WORK

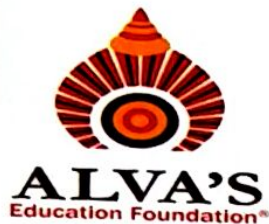
Course Outcomes : The student have learnt to

- Build thorough knowledge of various tools, machines, devices used in engineering practice.
- Acquire thorough knowledge of carrying out various operations in mechanical engineering workshop
- Utilize measuring skills gained in workshop practice
- Acquire "Hands on" training and practice to students for use of various tools, devices and machines
- Acquire skills in basic engineering practice for creating objects from raw materials
- Utilize practical skills in guiding works the trades


HOD

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ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY MOODBIDRI



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Shobhavana Campus, Mijar, Moodbidri DK Karnataka-574225

DEPARTMENT MECHANICAL ENGINEERING

Certificate

This is to certify that Mr./Ms. Nagasundar. K.S bearing the
USN HAL16ME035 from Mechanical Department has attended
the Students Workshop Program on "Hands on fabrication
Work " from 27th September 2019 to 1st October 2019.

Mr. Hemanth S
Coordinator

Head of the Department
Mechanical Engineering

Dr. Peter Fernandes
Principal
AIET Moodbidri