Shobhavana Campus, Mijar – 574225, Moodbidri.

Dakshina Kannada Karnataka, India.



## **Department of Mechanical Engineering**

**CERTIFICATION COURSE** 

On

"General Fabrication Work"

FOR THE ACADEMIC YEAR

2017-18



Shobhavana Campus, Mijar, Moodbidri – 574 225 Phone: 08258-262725 Fax: 08258-262726

#### DEPARTMENT OF MECHANICAL ENGINEERING

Date: 1814/2017

### APPROVAL LETTER

To,

The Principal, AIET, Moodbidri

Respected Sir,

Sub: - <u>Approval for Organizing the Students Certification/Training</u>

<u>Program on "General Fabrication Work"-Reg.</u>

With reference to the subject cited above, I would like to bring to your kind notice that, the Department is planning to host a <u>Five day's</u> Student Training Program/ hands on workshop on "<u>General Fabrication Work</u>" from 22<sup>nd</sup> Jan 2018 to 26<sup>th</sup> Jan 2018".

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

Thanking you Sir.

Coordinator:

Mr. Hemanth S

Head of the Department:

DESCRIPTION OF THE PROPERTY OF

PRINCIPAL

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

Place: AIET, Moodbidri.



Shobhavana Campus, Mijar, Moodbidri – 574 225 Phone: 08258-262725 Fax: 08258-262726

### DEPARTMENT OF MECHANICAL ENGINEERING

Date: 17/1/2018

#### **CIRCULAR**

All the students are hereby informed that there is a certification course on about General Fabrication Work which is scheduled from 22.01.2018 to 26.01.2018, which is conducted by Mr. Veerendra Kumar & Mr Raghavendra B, AIET, Dept of mechanical engineering, moodbidri. Interested students kindly register your names on or before 20.01.2018.

Head of the Department:

H. O. Mechanical Engineering

Dept. Of Mechanical Engineering

Alva's Institute of Engs. & Technology

Mijar, MOODBIDRI - 574 225

### INVITATION ALVA'S INSTITUTE OF ENGINEERING AND

- Invocation
- ❖ Welcome Speech
- Introducing the Chief Guest
- Honoring the Chief Guest
- Inauguration
- Presidential Speech
- Vote of Thanks

### TECHNOLOGY, MOODBIDRI

#### DEPARTMENT OF MECHANICAL ENGINEERING

Cordially invites you to the **Inauguration of Certification Program** 

General Fabrication Work"

Resource Person: Mr. Veerendra Kumar & Mr Raghavendra B

Dept. of ME, AIET Moodbidri

**Guest of Honor:** Mr. Vivek Alva

**Managing Trustee** 

President: **Dr. Peter Fernandes** 

Principal, AIET, Moodbidri.

Coordinator **Head of the Department** 

Mr. Hemanth S Mr K V Suresh

**Assistant Professor** Associate Professor and Head

Venue: AIET MECH Block@9.00AM

#### ABOUT VTU, BELAGAVI

Visvesvaraya Technological University is a collegiate public state university in Karnataka State, India. It was established by the Government of Karnataka. The university is named after M. Visvesvaraya from Karnataka, the only engineer to be awarded a "Bharat Ratna", the highest civilian award in India. Jnana Sangama, Belagavi is the headquarters of VTU. Additionally, the university has three regional centers in Bangalore, Gulbarga and Mysore. VTU is one of the largest universities in India with 212 colleges affiliated to it with an intake capacity of over 467,100 undergraduate students and 12,666 postgraduate students. The university encompasses technical and management fields which offer 30 undergraduate and 71 postgraduate courses. It has around 1800 PhD candidates. VTU has 13 QIP centers and 17 extension centers in its affiliated colleges offering postgraduate courses. It has around 2,305 departments recognized as research centers which are spread across its affiliated institutions in cities of Karnataka.

#### AIET, MOODBIDRI

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.

### PARTMENT OF MECHANICAL ENGINEERING.

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.

#### About General Fabrication Work Course

Metal fabrication is the process of building machines and structures from raw metal materials. The process includes cutting, burning, welding, machining, forming, and assembly to create the final product.

Metal fabrication projects include everything from hand railings to heavy equipment and machinery. Specific subsectors include cutlery and hand tools; architectural and structural metals; hardware manufacturing; spring and wire manufacturing; screw, nut, and bolt manufacturing; and forging and stamping.

The main benefit of metal fabrication shops is the centralization of these many processes that are often required to be performed in parallel via a collection of vendors. A one-stop metal fabrication shop helps contractors limit their need to work with multiple vendors to complete complicated projects.

#### COURSE CONTENT

- 1. Introduction to Fabrication work
- Professional Knowledge & Domain/Technical Knowledge
- 3. Professional /Technical Skills
- 4. Core Skills

#### **RESOURSE PERSON**

### Mr. Veerendra Kumar & Mr Raghavendra B

**Assistant Professor** 

Department of Mechanical Engineering, AIET Moodbidri

#### Organizing committee

Mr.shailesh B G, Mr. Raghavendra B, Mr.
Raghavendra P
Assistant Professor
Department of Mechanical Engieering AIET
Moodbidri

	DDOCDAY COMPOUND
	PROGRAM SCHEDULE
Example 1991	January 22, 2018
Inauguration:	09:00 am to 09:30 am
Tea Break:	9:30 am to 9:45 am
Session 1:	9:45 am to 01:00 pm
Lunch Break:	01:00 pm to 02:00 pm
Session 2:	02:00 pm to 05:00 pm
	January 23, 2018
Session 3:	09.30 am to 11:00 am
Lunch Break:	01:00 pm to 02:00 pm
Session 4:	02:00 pm to 05:00 pm
	January 24, 2018
Session 5:	09.30 am to 11:00 am
Lunch Break:	01:00 pm to 02:00 pm
Session 6:	02:00 pm to 05:00 pm
	January 25, 2018
Session 7:	09.30 am to 11:00 am
Lunch Break:	01:00 pm to 02:00 pm
Session 8:	02:00 pm to 05:00 pm
	January 26, 2018
Session 9:	09.30 am to 11:00 am
Lunch Break:	01:00 pm to 02:00 pm
Session 10:	02:00 pm to 04:00 pm
Valedictory:	04:30 pm to 05:00 pm



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### DEPARTMENT OF MECHANICAL ENGINEERING

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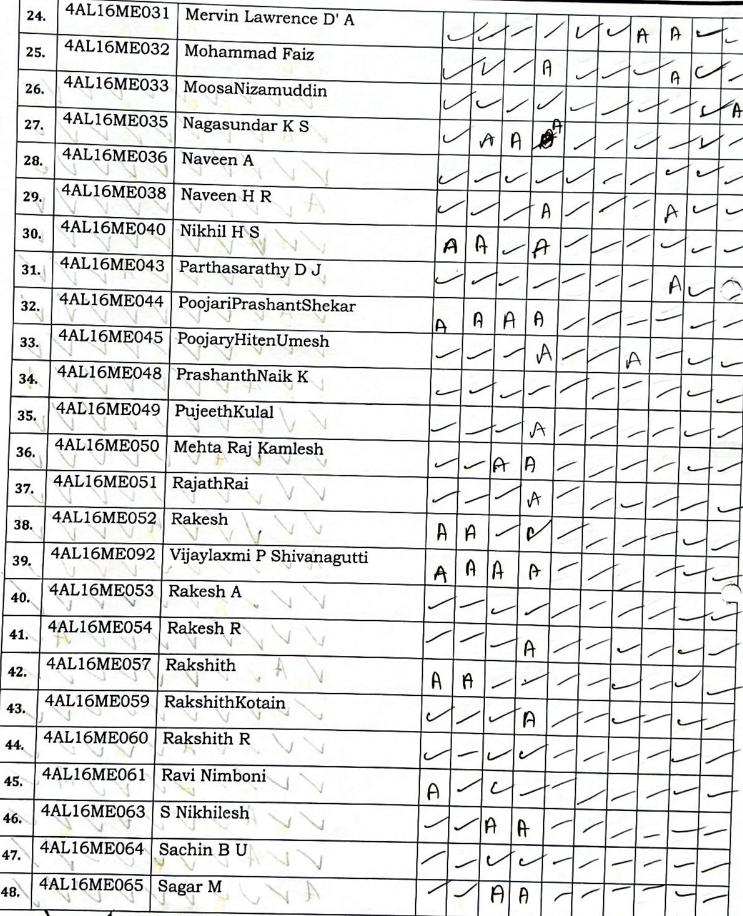
Coordinator

Alva's Institute of Engly & Technology Mijar, MOODBIDRI - 574 225



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### DEPARTMENT OF MECHANICAL ENGINEERING



Coordinator

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Dept. Of Mechaning Engineering Alva's institute of Engg. & Technomia, Mijar, MOODBIDRI - 574 933



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### DEPARTMENT OF MECHANICAL ENGINEERING

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Coordinator

Alva's institute of English Technology
Mijar, MOODBIERO 574 229



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## DEPARTMENT OF MECHANICAL ENGINEERING

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Coordinator

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Shobhavana Campus, Mijar, Moodbidri, D.K - 574225 Phone: 08258-262725, Fax: 08258-262726

### DEPARTMENT OF MECHANICAL ENGINEERING

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118.	4AL15ME070	Ramyashree	/	_	_	_	-	A		/		7
119.	4AL15ME071	Ravi Shiroshi	/	/		-	-/		/	1		
120.	4AL15ME072	Rohan N	/	/	_	_	_	/		/	_	7
121.	4AL15ME073	RoshanManoj A K	/	-	A	A	_	/				$\Rightarrow$
122.	4AL15ME075	Sanjay	_	_		_	/	-	_	-	. ^	
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Coordinator

Mijar, MOODBIDRI - 97 3 45



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# DEPARTMENT OF MECHANICAL ENGINEERING

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128	4AL15ME082	Thippesha B N	
129	4AL15ME083	Udit Praveen Manjrekar	
130	4AL15ME085	Veerendra S	
131	4AL15ME086	VeereshBiradar	
132	4AL15ME087	VidishShetty	VVVV A C
133.	4AL15ME089	Vinay S N	
134.	4AL15ME091	Viral B	
135.	4AL15ME092	Virupakshi S	
136.	4AL15ME093	Vishal G K	VA VA
137.	4AL15ME094	Vishal NagendraChougale	
138.	4AL15ME095	Vishal R Kalgutkar	
139.	4AL15ME096	YankappaKumbar	V V V V A
140.	4AL16ME400	Adarsh J	
141.	4AL16ME401	Akhil S	AVAVA
42.	4AL16ME403	Arunkumar S	AVVIII
43.	4AL16ME404	BhushanDayannavar	A
44.	4AL16ME406	Deepak H A	

Coordinator

H. O. D.

Dept. Of Mechanical distincering

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### DEPARTMENT OF MECHANICAL ENGINEERING

### Quiz on General fabrication work Course

- 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 scribers, 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. 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
- 5. Slightly curved face with beveled edges to prevent the head of the hammer from marking metal. What tool is it?

  A. Setting Hammer; B. Ball peen; C. Mallet; D. Riveting Hammer
- 6. Has a square flat face. Used for flattening seams with damaging the metal. What tool is it?

  A. Ball Peen Hammer; B. Setting Hammer; C. Mallet; D. Riveting Hammer
- 7. 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

- 8. Come in left handed (green), right handed (red), and straight cutting (yellow) and areused 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
- 9. Have flat jaws with small groves and are used for forming and holding work. What is the tool?
- A. Round Nose Pliers
- B. Flat Nose Pliers
- C. Slip-Joint Pliers
- D. General Pliers
- 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. Commonly called a Cornice brake, it is used for bending and folding the edges of metal. What part is it?
- A. Clamping Handle
- B. Bending Leaf Handle
- C. Hand Brake
- D. Rotary Handle
- 12. Used to drill holes that require a high degree of accuracy. What machine is it?
- A. Drill Press
- B. Bench Press
- C. Drill Grinder



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### DEPARTMENT OF MECHANICAL ENGINEERING

#### Quiz on General fabrication work Course

#### D. Bench Grinder

- 13. Used to form various edges and seams. Bends metal 22 gauge and lighter. Bends up to 165 degrees and lengths up to 36". What is it?
- A. Bench Grinder
- B. Bar folder
- C. Bender
- D. Vises
- 14. 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
- 15. Commonly known as drill bits, they are used to drill holes in sheet metal and other construction materials. They can be made of carbon steel or high speed alloy steel. What is it?
- A. Spiral Drills
- B. Twist Drills
- C. Drill Bits
- D. Shank Bits
- 16. The files that has a single row of teeth extending across the face at an angle of 65 degrees is a \_\_\_\_ cut file.
- A. Mill Cut File
- B. Single Cut File
- C. Double Cut File
- D. Flat Cut File

- 17. When using grinders, you should never grind on the ----?--- of the wheels.
- A. Corner
- B. Back
- C. Side
- D. Metal
- 18. What will happen if there is too much difference in the handle adjustment when changing the clamping pressure on the top leaf of the cornice brake?
- A. Uneven Bending
- B. It won't hold down correctly
- C. It will fly off the bender
- D. Nothing
- 19. Which hand held punch is used to mark points when laying out patterns on sheet metal?
- A. Center Punch
- B. Prick punch
- C. Solid Punch
- D. Hollow Punch
- 20. Electric drill can be single speed or variable and almost always includes a reverse gear. A drill is manufactured in what sizes?
- A. 1/4", 5/8", 1/2"
- B. 3/8", 5/8", 1/2"
- C. 1/4", 3/8", 1/2"
- D. 1/4", 3/8", 1"

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DEPARTMENT OF MECHANICAL ENGINEERING

### FEEDBACK FORM

Five days Students Training Program

### "General Fabrication Work"

For the following areas, please indicate your rating from 1 to 5: 1=strongly Disagree 2=Disagree 3=neither agree nor disagree 4=Agree 5=strongly Agree

SN	Topics	1	2	3	4	5
A.	Content					
1	Understood the basics fabrication work					/
2	Understood the fundamental of different application	L				_
3	Able to apply the techniques for the problems at the hand.					/
4	Understood the fundamentals of different materials				1	
5	Able to do practical work					/
В	Presentation					
6	Instructor's knowledge	Ш				
7	Instructor's presentation style				1	
8	Instructor covered material clearly					-
9	Instructor responded well to questions					
10	Instructor facilitated interactions among participants well					_
С. Н	ow could this workshop be improved?	_				
D. Aı	ny other comments or suggestions?		5			
E. O	verall, how would you rate this workshop?					
	Poor	i				
	Neither Good Nor Poor Exce	llen	t			-



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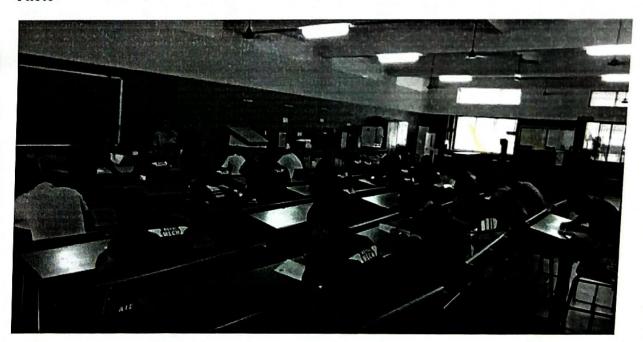
### DEPARTMENT OF MECHANICAL ENGINEERING

### Report on General Fabrication Work

The department of ME conducted a Five Days hands on students training program for the students of ME from 22-01-2018 to 26-01-2018 on "General Fabrication Work" at AIET Moodbidri.

Mr. Veerendra Kumar & Mr Raghavendra B, Department of Mechanical Engineering AIET, Moodbidri delivered a comprehensive and in depth information about the Fundamentals General Fabrication Work, Techniques, Applications. Participants have enthusiastically participated and learnt the application building.

Photo



Dept. 81 Machanical Engineering Mya's Institute of Engg. & Tectural 3

# ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY MOODBIDRI

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DEPARTMENT MECHANICAL ENGINEERING

# Certificate

This is to certify that Mr./Ms	bearing the
USN from	has attended
the Students Training Program on "Genera	l Fabrication
<b>Work</b> " from 22 <sup>nd</sup> January <b>2018</b> to <b>26<sup>th</sup></b> January 2	2018

**Mr. Hemanth S**Coordinator

Head of the Department Mechanical Engineering

Dr. Peter Fernandes
Principal
AIET Moodbidri