

ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY

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



ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY

Shobhavana Campus, Mijar, Moodbidri - 574 225

Phone: 08258-262725 Fax: 08258-262726

DEPARTMENT OF MECHANICAL ENGINEERING

Date:

APPROVAL LETTER

To,

The Principal,
AIET, Moodbidri

Respected Sir,

Sub: - Approval for Organizing the Students Certification/Training Program on "General Fabrication Work"-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 **Five day's** Student Training Program/ hands on workshop on "**General Fabrication Work**" from "22nd Jan 2018 to 26th 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:

H.O.D.
Prof. K. V. Suresh
Dept. of Mechanical Engineering
Alva's Institute of Engg. & Technology
Mijar, MOODBIDRI - 574 225


Principal:

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

Place: AIET, Moodbidri.



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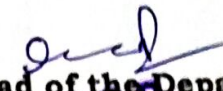
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DEPARTMENT OF MECHANICAL ENGINEERING

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.


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Dept. Of Mechanical Engineering
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DEPARTMENT OF MECHANICAL ENGINEERING

General Fabrication work-- ATTENDANCE REPORT-2017-18

SLN	USN	NAME(Caps Only)	22-01		23-01		24-01		25-01		26-01	
			FN	AN	FN	AN	FN	AN	FN	AN	FN	AN
1.	4AL15ME032	Dhanik N	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2.	4AL15ME097	Yeshwanth M	✓	A	✓	✓	✓	✓	✓	✓	✓	✓
3.	4AL16ME003	Abhishek H Shetty	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
4.	4AL16ME004	Ajay Paul	A	✓	✓	✓	✓	✓	✓	✓	✓	✓
5.	4AL16ME006	Akhil Mohan	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
6.	4AL16ME007	Anil Kumar	✓	✓	✓	✓	✓	A	✓	✓	✓	✓
7.	4AL16ME009	Bavini	✓	A	✓	✓	✓	✓	✓	✓	✓	✓
8.	4AL16ME010	Blesson Xavier	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
9.	4AL16ME011	ChandrashekarKulal	✓	✓	A	✓	✓	✓	✓	✓	✓	A
10.	4AL16ME012	Chethan N	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
11.	4AL16ME013	Chinmaya G A	✓	✓	✓	A	✓	✓	✓	✓	✓	✓
12.	4AL16ME014	ChiragPoojari	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
13.	4AL16ME015	MoolyaDivyaraj Raghu	✓	✓	✓	✓	✓	A	✓	✓	✓	✓
14.	4AL16ME016	Ganesh V Kadappanavar	A	✓	✓	✓	✓	✓	✓	✓	✓	✓
15.	4AL16ME017	HarikrishnaRaju	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
16.	4AL16ME018	S A Hithesh Raj	✓	✓	✓	✓	✓	✓	✓	✓	✓	A
17.	4AL16ME019	Karthik S Mendon	✓	A	✓	✓	✓	✓	✓	✓	✓	✓
18.	4AL16ME020	Kevin Joseph Lobo	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
19.	4AL16ME021	Kiran Kumar	✓	✓	✓	✓	A	✓	✓	✓	✓	✓
20.	4AL16ME022	Kishore Kumar A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
21.	4AL16ME024	Manil U	✓	✓	A	✓	✓	✓	✓	✓	✓	✓
22.	4AL16ME028	Manojgowda K N	✓	✓	A	✓	✓	✓	✓	✓	✓	✓
23.	4AL16ME029	Manoj Kumar D	A	✓	✓	✓	✓	✓	✓	✓	✓	✓

HoD



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24.	4AL16ME031	Mervin Lawrence D' A										A	A	
25.	4AL16ME032	Mohammad Faiz				A						A	C	
26.	4AL16ME033	MoosaNizamuddin												A
27.	4AL16ME035	Nagasundar K S		A	A									
28.	4AL16ME036	Naveen A												
29.	4AL16ME038	Naveen H R				A						A		
30.	4AL16ME040	Nikhil H S	A	A		A								
31.	4AL16ME043	Parthasarathy D J										A		
32.	4AL16ME044	PoojariPrashantShekar	A	A	A	A								
33.	4AL16ME045	PoojaryHitenUmesh				A				A				
34.	4AL16ME048	PrashanthNaik K												
35.	4AL16ME049	PujeethKulal				A								
36.	4AL16ME050	Mehta Raj Kamlesh			A	A								
37.	4AL16ME051	RajathRai				A								
38.	4AL16ME052	Rakesh	A	A										
39.	4AL16ME092	Vijaylaxmi P Shivanagutti	A	A	A	A								
40.	4AL16ME053	Rakesh A												
41.	4AL16ME054	Rakesh R				A								
42.	4AL16ME057	Rakshith	A	A										
43.	4AL16ME059	RakshithKotain				A								
44.	4AL16ME060	Rakshith R												
45.	4AL16ME061	Ravi Nimboni	A											
46.	4AL16ME063	S Nikhilesh			A	A								
47.	4AL16ME064	Sachin B U												
48.	4AL16ME065	Sagar M			A	A								

Coordinator


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DEPARTMENT OF MECHANICAL ENGINEERING

124.	4AL15ME078	ShreedharBankapur	A	✓	✓	A	✓	/	/	/	/	/
125.	4AL15ME079	Shridhar G C	✓	✓	✓	✓	/	/	/	/	/	/
126.	4AL15ME080	ShridharPremsingRathod	✓	✓	A	✓	✓	/	/	/	/	/
127.	4AL15ME081	Sunil D R	✓	✓	✓	✓	/	/	A	/	/	/
128.	4AL15ME082	Thippesha B N	✓	✓	✓	✓	/	/	/	/	/	A
129.	4AL15ME083	Udit Praveen Manjrekar	✓	✓	✓	✓	/	/	/	/	/	/
130.	4AL15ME085	Veerendra S	✓	A	✓	✓	/	/	/	/	/	/
131.	4AL15ME086	VeereshBiradar	✓	✓	✓	✓	/	A	/	/	A	/
132.	4AL15ME087	VidishShetty	/	✓	✓	✓	/	/	/	/	/	/
133.	4AL15ME089	Vinay S N	✓	✓	✓	✓	/	/	/	/	/	/
134.	4AL15ME091	Viral B	✓	✓	A	✓	/	/	/	/	/	/
135.	4AL15ME092	Virupakshi S	✓	✓	✓	✓	/	/	A	/	/	/
136.	4AL15ME093	Vishal G K	✓	✓	A	✓	A	/	/	/	/	/
137.	4AL15ME094	Vishal NagendraChougale	✓	✓	A	✓	/	/	/	/	/	/
138.	4AL15ME095	Vishal R Kalgutkar	✓	✓	✓	✓	/	✓	/	A	/	/
139.	4AL15ME096	YankappaKumbar	✓	✓	✓	✓	/	/	/	/	/	/
140.	4AL16ME400	Adarsh J	A	✓	A	✓	/	/	/	A	/	A
141.	4AL16ME401	Akhil S	✓	A	✓	✓	/	/	/	/	/	/
142.	4AL16ME403	Arunkumar S	✓	✓	✓	✓	/	/	/	/	/	A
143.	4AL16ME404	BhushanDayannavar	✓	✓	✓	✓	/	/	/	/	/	/
144.	4AL16ME406	Deepak H A	✓	✓	✓	✓	/	/	/	/	/	/

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General Fabrication work course				
SLN	USN	NAME(Caps Only)	Marks scored	
			Max Marks[20]	Qualified
1.	4AL15ME032	Dhanik N	20	Q
2.	4AL15ME097	Yeshwanth M	20	Q
3.	4AL16ME003	Abhishek H Shetty	20	Q
4.	4AL16ME004	Ajay Paul	20	Q
5.	4AL16ME006	Akhil Mohan	20	Q
6.	4AL16ME007	Anil Kumar	20	Q
7.	4AL16ME009	Bavini	20	Q
8.	4AL16ME010	Blesson Xavier	20	Q
9.	4AL16ME011	ChandrashekarKulal	20	Q
10.	4AL16ME012	Chethan N	20	Q
11.	4AL16ME013	Chinmaya G A	20	Q
12.	4AL16ME014	ChiragPoojari	20	Q
13.	4AL16ME015	MoolyaDivyaraj Raghu	20	Q
14.	4AL16ME016	Ganesh V Kadappanavar	20	Q
15.	4AL16ME017	HarikrishnaRaju	20	Q
16.	4AL16ME018	S A Hithesh Raj	20	Q
17.	4AL16ME019	Karthik S Mendon	20	Q
18.	4AL16ME020	Kevin Joseph Lobo	20	Q
19.	4AL16ME021	Kiran Kumar	20	Q
20.	4AL16ME022	Kishore Kumar A	20	Q
21.	4AL16ME024	Manil U	20	Q
22.	4AL16ME028	Manojgowda K N	20	Q
23.	4AL16ME029	Manoj Kumar D	20	Q

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24.	4AL16ME031	Mervin Lawrence D' A	20	Q
25.	4AL16ME032	Mohammad Faiz	20	Q
26.	4AL16ME033	MoosaNizamuddin	20	Q
27.	4AL16ME035	Nagasundar K S	20	Q
28.	4AL16ME036	Naveen A	20	Q
29.	4AL16ME038	Naveen H R	20	Q
30.	4AL16ME040	Nikhil H S	20	Q
31.	4AL16ME043	Parthasarathy D J	20	Q
32.	4AL16ME044	PoojariPrashantShekar	20	Q
33.	4AL16ME045	PoojaryHitenUmesh	20	Q
34.	4AL16ME048	PrashanthNaik K	20	Q
35.	4AL16ME049	PujeethKulal	20	Q
36.	4AL16ME050	Mehta Raj Kamlesh	20	Q
37.	4AL16ME051	RajathRai	20	Q
38.	4AL16ME052	Rakesh	20	Q
39.	4AL16ME092	Vijaylaxmi P Shivanagutti	20	Q
40.	4AL16ME053	Rakesh A	20	Q
41.	4AL16ME054	Rakesh R	20	Q
42.	4AL16ME057	Rakshith	20	Q
43.	4AL16ME059	RakshithKotain	20	Q
44.	4AL16ME060	Rakshith R	20	Q
45.	4AL16ME061	Ravi Nimboni	20	Q
46.	4AL16ME063	S Nikhilesh	20	Q
47.	4AL16ME064	Sachin B U	20	Q
48.	4AL16ME065	Sagar M	20	Q


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49.	4AL16ME066	Sanjay S	20	
50.	4AL16ME067	Santhosh G B	20	
51.	4AL16ME068	SanthoshChndrashekhar	20	
52.	4AL16ME069	ShaikMohamadSafwan	20	
53.	4AL16ME070	ShettyAditArvind	20	
54.	4AL16ME071	ShettyAkashVasanth	20	
55.	4AL16ME072	ShettyGaurav Ramesh	20	
56.	4AL16ME073	ShettyManojManmatha	20	
57.	4AL16ME074	ShettyPranayRadhakrishna	20	
58.	4AL16ME075	Shetty Pratik Jagannath	20	
59.	4AL16ME076	ShettyRohithJayaprakash	20	
60.	4AL16ME077	Shikhar V Raj Jain	20	
61.	4AL16ME078	ShivakumarKataraki	20	
62.	4AL16ME080	SohanPoojari S S	20	
63.	4AL16ME081	SonalTomy	20	
64.	4AL16ME082	Soufia N Shaikh	20	
65.	4AL13ME134	Anoop R B	20	
66.	4AL14ME030	Gurumurthy J L	20	
67.	4AL14ME031	Harsha Raj	20	
68.	4AL14ME037	Jyothish Kumar K P	20	
69.	4AL14ME096	Shravika K A	20	
70.	4AL14ME109	Aishwarya P Bhandarkar	20	
71.	4AL15ME005	Adithya K V	20	
72.	4AL15ME007	Akash	20	
73.	4AL15ME008	Akash B P	20	

Coordinator

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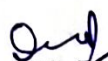
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74.	4AL15ME013	Anand Mohan Gosabal	20	Q
75.	4AL15ME014	Anish A Amin	20	Q
76.	4AL15ME015	Anson Sunil Huns	20	Q
77.	4AL15ME016	ArasikeriDhanyakumar	20	Q
78.	4AL15ME017	Arjun A A	20	Q
79.	4AL15ME018	Arvin Jason Crasta	20	Q
80.	4AL15ME022	PoojaryAvinash Harish	20	Q
81.	4AL15ME023	BharatheshHegde	20	Q
82.	4AL15ME024	Bharath Kumar B U	20	Q
83.	4AL15ME025	BhaskarNaik	20	Q
84.	4AL15ME026	C Abhilash	20	Q
85.	4AL15ME028	Christina	20	Q
86.	4AL15ME029	Darshan K S	20	Q
87.	4AL15ME033	Girish	20	Q
88.	4AL15ME034	Hamza Mohammed Hafeez	20	Q
89.	4AL15ME035	Harish Balkunde	20	Q
90.	4AL15ME036	Harsha R	20	Q
91.	4AL15ME037	Hemanth Kumar D	20	Q
92.	4AL15ME038	Jameson Keisham	20	Q
93.	4AL15ME040	K V Adith	20	Q
94.	4AL15ME041	Kalyankumar	20	Q
95.	4AL15ME042	Karthik K	20	Q
96.	4AL15ME044	KiranRamanagowdaHosagowdar	20	Q
97.	4AL15ME045	Koushik N	20	Q
98.	4AL15ME046	Lathesh	20	Q


Coordinator


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**DEPARTMENT OF MECHANICAL ENGINEERING**

99.	4AL15ME047	MahalingSiddappaByakod	20	Q
100.	4AL15ME049	Mahesh Raju V	20	Q
101.	4AL15ME050	Manish	20	Q
102.	4AL15ME051	Manoj	20	Q
103.	4AL15ME052	Manoj Kumar N S	20	Q
104.	4AL15ME054	MayyaddinNaveed	20	Q
105.	4AL15ME055	Mohammed Iliyaz	20	Q
106.	4AL15ME056	MoinodinSha	20	Q
107.	4AL15ME058	Muttappa B Kamati	20	Q
108.	4AL15ME060	Nandish Kumar J N	20	Q
109.	4AL15ME061	Naveen Kumar S	20	Q
110.	4AL15ME062	Nikhil Y J	20	Q
111.	4AL15ME063	Nithin Kumar N G	20	Q
112.	4AL15ME064	Pavan Kumar B C	20	Q
113.	4AL15ME065	Pranavatheertha K G	20	Q
114.	4AL15ME066	PrasannaSubhaschandraYaligar	20	Q
115.	4AL15ME067	PrashantMunchakhandi	20	Q
116.	4AL15ME068	AniketHarishchandraPuthran	20	Q
117.	4AL15ME069	Rajath	20	Q
118.	4AL15ME070	Ramyashree	20	Q
119.	4AL15ME071	Ravi Shiroshi	20	Q
120.	4AL15ME072	Rohan N	20	Q
121.	4AL15ME073	RoshanManoj A K	20	Q
122.	4AL15ME075	Sanjay	20	Q
123.	4AL15ME076	ShettySiddharthDevaraj	20	Q



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125.	4AL15ME079	Shridhar G C	20	Q
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128.	4AL15ME082	Thippesha B N	20	Q
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130.	4AL15ME085	Veerendra S	20	Q
131.	4AL15ME086	VeereshBiradar	20	Q
132.	4AL15ME087	VidishShetty	20	Q
133.	4AL15ME089	Vinay S N	20	Q
134.	4AL15ME091	Viral B	20	Q
135.	4AL15ME092	Virupakshi S	20	Q
136.	4AL15ME093	Vishal G K	20	Q
137.	4AL15ME094	Vishal NagendraChougale	20	Q
138.	4AL15ME095	Vishal R Kalgutkar	20	Q
139.	4AL15ME096	YankappaKumbar	20	Q
140.	4AL16ME400	Adarsh J	20	Q
141.	4AL16ME401	Akhil S	20	Q
142.	4AL16ME403	Arunkumar S	20	Q
143.	4AL16ME404	BhushanDayannavar	20	Q
144.	4AL16ME406	Deepak H A	20	Q


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DEPARTMENT OF MECHANICAL ENGINEERING

FEEDBACK FORM

Five days Students Training Program

On

"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					✓
3	Able to apply the techniques for the problems at the hand.					✓
4	Understood the fundamentals of different materials				✓	
5	Able to do practical work					✓
B.	Presentation					
6	Instructor's knowledge					✓
7	Instructor's presentation style					✓
8	Instructor covered material clearly					✓
9	Instructor responded well to questions					✓
10	Instructor facilitated interactions among participants well					✓
C. How could this workshop be improved? — M —						
D. Any other comments or suggestions? — M —						
E. Overall, how would you rate this workshop?						
☐	Poor	☐		Good		
☐	Neither Good Nor Poor	☒		Excellent		



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

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 known 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. 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 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
9. Have flat jaws with small grooves 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 of 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

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



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DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR: 2017-18

CERTIFICATE PROGRAM ON GENARAL FABRICATION WORK

SL. No	Topic
1	Introduction & Importance of welding industry, Theory on Definition of welding Arc welding and Gas Welding, Safety measures and First Aid. Use of tools, accessories and equipments used for welding, Methods of Metal joining- Riveting, Soldering, Brazing, Seaming etc., Theory on Basic electricity applicable for welding, Meaning of Arc length, effects of arc length polarity-Types and applications, Gas Brazing & soldering Principles, types, uses and defects-causes and remedies.
2	. Operation of various tools, accessories and equipments used for welding. Performing Arc welding, Gas welding-Welding by use of Oxy acetylene flame and use of Oxy acetylene cutting equipment. Welding using different positions Flat, horizontal, vertical and over head position, weld slope and rotation, welding symbols as per BIS & AWS. Working on different Arc length polarity. Gas welding practical sessions filler rods, fluxes, brazing and soldering. Brass, copper and aluminum welding practical application. Cast iron welding practical application.
3	Business Opportunity Identification, Market Survey and Business Plan Development, Planning and Risk Assessment, . Problem solving, Time management, . Communication, . Business Management skills


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Course Coordinator