

(Autonomous) Approved by AICTE, New Delhi & Affiliated to Anna University, Chennal Accredited by NBA (AERO,CSE, MECH,ECE), NAAC with "A\*" and Recognised by UGC (2f &12B) KOMARAPALAYAM - 637303

### DEPARTMENT OF SAFETY AND FIRE ENGINEERING

ACADEMIC YEAR 2021-22

#### VALUE ADDED COURSE

#### ON

## "HAZARD PREVENTION IN MANUFACTURING PROCESS"

**COURSE DURATION: 30 HOURS** 



(Autonomous)

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennal Accredited by NBA (AERO,CSE, MECH,ECE), NAAC with "A\*" and Recognised by UGC (2f &12B) KOMARAPALAYAM - 637303

#### **Permission Letter**

Date: 14 / 12 /2021 Place: Komarapalayam

From

S.Saravanakumar

Anu Alex

Assistant Professor

Department of Safety and Fire Engineering

Excel Engineering College (Autonomous)

Komarapalayam.

To

The Principal Excel Engineering College (Autonomous) Komarapalayam.

Sir

Subject: Seeking permission to organize value added course on "Hazard Prevention in

manufacturing process"- reg

Sir, We would like to organize value added course on "Hazard Prevention in manufacturing process" in Safety and Fire Engineering students from 16.12.2021 to 24.12.2021, so that We kindly request you to do the needful for flawless conduction of the courses.

Thank you

Yours truly

2000

le mpazz

HoD / SFF

Activity Coordinator





Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai Accreditated by NBA ( AERO, MECH, CSE & ECE ), NAAC ( A<sup>+</sup> Grade - 3.26 ) and Recognized by UGC ( 2f & 12B )

> B.E. - AERO, MECH, CSE, ECE



## DEPARTMENT OF SAFETY & FIRE ENGINEERING

VALUE ADDED COURSE ON

HAZARD PREVENTION IN MANUFACTURING PROCESS

Mr.S.Saravanakumar Mr.Anu Alex Course Co-ordinator

#### Theme of the Course

- Hazard prevention
- Combustion Process
- Metal casting Process
- Sheet Metal Fabrication
- Hazard Control Plan

#### Venue: Safety Engineering Practice Lab, Excel Engineering College

Dr.K.Boopathy Head of the Department Mr.S.Saravanakumar Activity Co-ordinator







### DETAILED SCHEDULE

Day-1: Fire Extinguisher Training And PPEKit Study by Dr.K.BOOPATHY, ASP / SF

Demonstration on Fire Extinguisher Training And PPT Kit Study and extinguisher. Fire Safety & Fire Extinguisher Use. Objectives. Understand the combustion process and different fire classes.

Day-2 Modeling Of Metal Casting Process by Mr.S.SARAVANAKUMAR, AP / SF

Demonstration on Modeling Of Metal Casting Process and designs of metal castings, produced with the help of 3D technologies.

Day-3: Training On Sheet Metal Fabrication, Mr.S.SARAVANAKUMAR, AP / SF

Demonstration on Fabricate, assemble, install, and repair sheet metal products and equipment, such as ducts. control boxes, drainpipes, and furnace casings.

Day-4: First Aid Training, Mr.ANU ALEX, AP / SF

Demonstration on initial intervention in a serious condition prior to professional medical help being available.

1

Day-5 Poster Making, Mr.ANU ALEX, AP / SF

Bemonstration on design a poster in six steps. Perhaps the biggest draw of poster media is the graphic's ability to be eye-catching and artistic.

Day-6: Cad Modeling, Mr.N.PRITHIVIRAJ, AP / SF

Demonstration on CAD Modelling or Computer-aided Design is an important part of the design process.

Day-7 Technical Quiz, Mr.N.PRITHIVIRAJ, AP / SF

Demonstration on Put your knowledge about all things technology to the test.

Day-8 Lathe Machine Operations, Mr.S.SARAVANAKUMAR, AP / SF

Demonstration on The operations which can be performed by the Engine Lathe machine are Turning, facing, grooving, knurling, threading, and many more operations that can be performed by it. Engine lathe consists of headstock, Tailstock, bed, saddle, carriage and other parts. The headstock encloses the spindle and motor.

#### TRAINING WORKPLAN

David	and the fact of the off the	Timelines (Days)								
Duya	Proposed Activity/Task	3000-8540-34013	2	3	4	5	6	7	8	
Day=1	Fire Extinguisher Training And PPT Kit Study			a antitespectro	INF DEEDING AND AND	t and a second second		2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Day -2	Modeling Of Metal Casting Process	A MARANA STRUCT	ALCORDANCE IN	Canada Constantin						
Day-3	Training On Sheet Metal Fabrication	a navni der starte der s	100000		5 and many roots	1			er ( ) a 22 ( a 18 4)	
Dayed	First Aid Training	A MARKAN STREET	The first	Same Institute	现代	BALDLINGT BY	Contraction of Barrier Street	and the second s	The state of the s	
Juy-5	Poster Making		etzagintzgarjek r	NET ENLINE GOVEN	ALCOR MANUAL	and the second second	-sumain a course	No. 10 Your and	nd gebrievend	
Day-6	Cade Modeling	and the second	er andre er tr	10000000000000000000000000000000000000	Handrid and the	*12 https://	a chanta da seguida.		100 0000	
Day-7	Technical Quiz	Instract warreners	1-21-25-Trhensee to	10044040100	-birkbai Territa	where a life of the day	Seena ( Aste)	Billio de la cali de	anat a	
Day-8	Lathe Machine Operations	inest of the	antronesika Pri/U.	and the second s	- Gentler	digts.	and a second	ann ail is de 17 agins i	ana 200-10040	

QW Course Coordinator

-optor Director Administration

S.P. Director Academics

and combined had held a such

16/12

HOD

12/21

Principal



(Autonomous) Approved by AICTE, New Delhi & Affiliated to Anna University, Chennal Accredited by NBA (AERO,CSE, MECH,ECE), NAAC with "A+" and Recognised by UGC (2f &12B) KOMARAPALAYAM - 637303

#### Department of Safety and Fire Engineering

#### CIRCULAR

#### Ref.No:EEC/SFE/2021-22/VAC-01

#### Date: 15.12.2021

We have planned to conduct a Value Added Course on "Hazard Prevention in manufacturing process" from 16.12.2021 to 24.12.2021 at Safety and Fire Engineering Laboratory. All the Second Year Students are informed to attend this Course.

**Course Coordinator** 

HoD/SFE

CC to:

1. File

2. Overall Activity Coordinator

3. Director-Academic, Admin and Technical

4. Executive Director

5. Chairman/Vice Chairman

6. Dept. Notice Board



#### (Autonomous) Approved by AICTE, New Delhi & Affiliated to Anna University, Chennal Accredited by NBA (AERO,CSE, MECH,ECE), NAAC with "A\*" and Recognised by UGC (2f &12B) KOMARAPALAYAM - 637303

#### DEPARTMENT OF SAFETY AND FIRE ENGINEERING ACADEMIC YEAR 2021-22

#### Value Added Course Syllabus

Training Period	8 Days (30 Hours)
DAYS	Training Particulars
Day 1	Fire Extinguisher Training and PPT Kit Study Demonstration on Fire Extinguisher Training And PPT Kit Study and extinguisher. Fire Safety & Fire Extinguisher Use. Objectives. Understand the combustion process and different fire classes.
Day 2	Modeling of Metal Casting Process Demonstration on Modeling of Metal Casting Process and designs of metal castings, produced with the help of 3D technologies
Day 3	Training on Sheet Metal Fabrication Demonstration on Fabricate assembles, install, and repair sheet metal products and equipment, such as ducts, control boxes, drainpipes, and furnace casings.
Day 4	First aid Training Demonstration on initial intervention in a serious condition prior to professional medical help being available
Day 5	<b>Poster Making</b> Demonstration on design a poster in six steps. Perhaps' the biggest draw of poster media is the graphic's ability to be eye-catching and artistic
Day 6	CAD Modeling Demonstration on CAD Modelling or Computer-aided Design is an important part of the design process.
Day 7	Technical Quiz Demonstration on Put your knowledge about all things technology to the test
Day 8	Lathe Machine Operations Demonstration on The operations which can be performed by the Engine Lather machine are Turning, facing, grooving, knurling, threading, and many more operations that can be performed by it. Engine lather consists of headstock Tailstock, bed, saddle, carriage and other parts. The headstock encloses the spindle and motor

S **Course Coordinator** 

Q. M HoD/SFE Var

勃厚



(Autonomous) Approved by AICTE, New Delhi & Affiliated to Anna University, Chennal Accredited by NBA (AERO,CSE, MECH,ECE), NAAC with "A\*" and Recognised by UGC (2f &12B) KOMARAPALAYAM - 637303

#### DEPARTMENT OF SAFETY AND FIRE ENGINEERING

#### ACADEMIC YEAR 2021-22

#### VALUE ADDED COURSE ON "HAZARD PREVENTION IN MANUFACTURING PROCESS"

#### SCHEDULE

DAYS	Training Particulars	<b>Course Instructor</b>
Day 1 (16.12.2021)	Fire Extinguisher Training And PPT Kit Study	Dr.K.Boopathy
Day 2 (17.12.2021)	Modeling of Metal Casting Process	Mr.S.Saravanakumar
Day 3 (18.12.2021)	Training on Sheet Metal Fabrication	Mr.S.Saravanakumar
Day 4 (20.12.2021)	First Aid Training	Mr.Anu alex
Day 5 (21.12.2021)	Poster Making	Mr.Anu alex
Day 6 (22.12.2021)	CAD Modeling	Mr.N.Prithiviraj
Day 7 (23.12.2021)	Technical Quiz	Mr.N.Prithiviraj
Day 8 (24.12.2021)	Lathe Machine Operations	Mr.S.Saravanakumar

S **Course Coordinator** 

- mgab HoD/SFE

時に

223



(Autonomous) Approved by AICTE, New Delhi & Affiliated to Anna University, Chennal Accredited by NBA (AERO,CSE, MECH,ECE), NAAC with "A\*" and Recognised by UGC (2f &12B) KOMARAPALAYAM - 637303

### DEPARTMENT OF SAFETY AND FIRE ENGINEERING

#### ACADEMIC YEAR 2021-22

#### VALUE ADDED COURSE ON "HAZARD PREVENTION IN MANUFACTURING PROCESS"

#### **COURSE OBJECTIVES:**

- > To understand the combustion process and different fire classes.
- > To create the model of metal casting process.
- > To learn about the various hazards associated with the manufacturing process employed in manufacturing processes.
- > To give the training on sheet metal fabrication.

#### **COURSE OUTCOMES:**

- Knowledge about the combustion process and different fire classes.
- Inspect the workplace for safety hazards ×
- Identify hazards associated with emergency and nonroutine situations ×
- Develop and update a hazard control plan >
- Select controls to protect workers during nonroutine operations and emergencies >





(Autonomous) Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai Accredited by NBA (AERO,CSE, MECH,ECE), NAAC with "A<sup>+</sup>" and Recognised by UGC (2f &12B) KOMARAPALAYAM - 637303

#### DEPARTMENT OF SAFETY AND FIRE ENGINEERING ACADEMIC YEAR 2021-22

VALUE ADDED COURSE ON "HAZARD PREVENTION IN MANUFACTURING PROCESS"

#### SAMPLE PHOTOS





(Autonomous) Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai Accredited by NBA (AERO,CSE, MECH,ECE), NAAC with "A<sup>+</sup>" and Recognised by UGC (2f &12B) KOMARAPALAYAM - 637303



**Course Coordinator** 

HOD/SFE



#

(Autonomous) Approved by AICTE, New Delhi & Affiliated to Anna University, Chennal Accredited by NBA (AERO,CSE, MECH,ECE), NAAC with "A\*" and Recognised by UGC (2f & 12B) KOMARAPALAYAM - 637303

#### DEPARTMENT OF SAFETY AND FIRE ENGINEERING ACADEMIC YEAR 2021-22

#### VALUE ADDED COURSE ON "HAZARD PREVENTION IN **MANUFACTURING PROCESS"**

#### SUMMARY REPORT

Department	Safety and Fire Engineering
Name of the Event	Value added course on - "Hazard prevention in manufacturing process
Date of the Event	16.12.2021 to 24.12.2021
Venue	Safety & Fire Engineering Laboratory
Name of the Coordinators	Mr.S.Saravanakumar, Mr.Anu Alex, Assistant Professor Department of Safety and Fire Engineering.
No of Participants	15
General Remarks	Course Instructor about Fire Extinguisher Training And PPT Kit Study, Modeling of Metal Casting Process, Training on Sheet Metal Fabrication, First aid training, Poster Making and Lathe Machine Operations

**Course Coordinator** 

**Activity Coordinator** 



(Autonomous) Approved by AICTE, New Delhi & Affiliated to Anna University, Chennal Accredited by NBA (AERO,CSE, MECH,ECE), NAAC with "A" and Recognized by UGC (2f &12B) KOMARAPALAYAM - 637303

#### DEPARTMENT OF SAFETY AND FIRE ENGINEERING ACADEMIC YEAR 2021-22

#### VALUE ADDED COURSE ON "HAZARD PREVENTION IN **MANUFACTURING PROCESS"**

PARTICIPANTS LIST

SI. No.	Roll No.	Student Name	Student Signature
1	20SF001	AARIFSULTHAN.J	J. Dat buy
2	20SF002	AKASH KRISHNAN	Alato
3	20SF003	BALAKRISHNA.S.T	Stopp.
4	20SF004	BEN JACOB FRANCIS	Donuights
5	20SF005	DHARMENDRA KUMAR	BAHF.
6	20SF006	FAHEEM.E.K	Q ,
7	20SF007	FAZALU RAHMAN.K	Fahana
8	20SF008	JIBIN MATHEW	This
9	20SF010	JOTHEESWARAN.A	Atraz,
10	20SF011	MUHAMMED ASHMAL	MIDI
11	20SF012	RAJESH.R	F. Oujen)
12	20SF013	SABESH.T	T-Solut
13	20SF015	SUGUMAR.E	E.Sp
14	20SF017	VIMAL ADHITHAN.J	Vatio
15	21LSF021	RAJKUMAR R	Rikaflour

Sand . **Course Coordinator** 

HoD/SFE



(Autonomous) Approved by AICTE, New Delhi & Affiliated to Anna University, Chennal Accredited by NBA (AERO, CSE, MECH, ECE), NAAC with "A\*" and Recognised by UGC (2f &12B) KOMARAPALAYAM - 637303

#### DEPARTMENT OF SAFETY AND FIRE ENGINEERING ACADEMIC YEAR 2021-22

#### VALUE ADDED COURSE ON "HAZARD PREVENTION IN MANUFACTURING PROCESS"

#### ATTENDANCE SHEET Year/Sem : II/III 24.12.2021 22.12.2021 23.12.2021 21.12.2021 Student Name 20.12.202 Roll No. 16.12.2021 17.12.202 18.12.202 SI. No. AARIFSULTHAN.J 20SF001 a 20SF002 AKASH KRISHNAN I ) 20SF003 BALAKRISHNA.S.T BEN JACOB FRANCIS 20SF004 ) DHARMENDRA KUMAR 20SF005 ) FAHEEM.E.K 20SF006 J FAZALU RAHMAN.K 20SF007 a JIBIN MATHEW 20SF008 JOTHEESWARAN.A 20SF010 MUHAMMED ASHMAL 20SF011 RAJESH.R 20SF012 SABESH.T 20SF013 SUGUMAR.E 20SF015 1. VIMAL ADHITHAN.J 20SF017 RAJKUMAR R 21LSF021 No of Students Present Nil Nil Nil Nil Nil No of Absent C2 See SRO Je NP

**Course instructor Signature** 



NR Store HoD/SFI



#### Excel ENGINEERING COLLEGE Komarapalayam-637303

DEPARTMENT OF SAFETY AND FIRE ENGINE FRINK

#### ACADEMIC YEAR: 2021- 20 22-

#### Indirect Assessment of Program Outcomes& Program Specific Outcomes

#### through Curricular and Extracurricular Activities

Student Name : J. AARIFSULTHAN

Batch

: 2020 - 2024

Year/Semester: / II / III

the March 2 (11) period

Date: 24.12, 2021

Type of Activity: Value added course / Industrial Visit / Implant Training /Guest Lecturer/ Seminar / Conference /Workshop / Design Contest/ Project Contest / Sports/ Games/ Social

Activities / Certificate Program / Diploma Course/hackathon/ Ideathon / or any

Organizing Institute: Excel Engineering college

Place: Safety Engineering practice lab

Provide your level of attainment for the following question:  $\Box y \checkmark$  in the given,

[3/2/1 Indicates Level of Attainment; 3 – Very Much, 2 – Moderate, 1 – Some Extent]

1

1. Does this Activity/ Course improve your Technical Skill?

3 M

2 🗌

2. Does this Activity /Course improve your Problem Solving Skill?

3 2 1

3 1, 1, 1, 2

3. Does this training / Course improve your practical Exposure?

ę.	4.	Have you	learnt any mod	lern tools through t	his activity/ training?
		Yes 🗋 🛛	No 🖸 if	yes name of tool	and a state of the
	5,	Does this	activity /trainin	ng useful to improve	your professional ethics?
		3 2	2 🗆	10	
	6,	Does this	activity /trainin	ng useful to apply fo	r any modern research programs?
		3 2	2 🗆	10	
	7.	Have you	got any ideas t	o improve our envi	ronmental & social needs?
		3 22	2 🗆	1	
	8.		ever felt that his activity?	your communicatio	n skill & leadership skill has been improved
		3 🕅	2 🖸	10	
	9.	Does this	Activity / traini	ing useful to improv	e learning attitude with zeal?
		3 1	2 🗖	1	
	10	. Does this	Activity /traini	ng useful for you to	work in multi-disciplinary team?
		3 র্ম	2 🗖	1	
	11	. Does this	Activity /traini	ng improve your mi	nd to face any changes in your life?
		3 র্ম	2 🗖	1	
		ther Comm	ients:		<b>x*</b> 2

J DAI full-Signature

Excel ENGINEERING COLLEGE Komarapalayam-637303

## DEPARTMENT OF Safedy and fire Engeneeding ACADEMIC YEAR: 2021-2022

## Indirect Assessment of Program Outcomes& Program Specific Outcomes

through Curricular and Extracurricular Activities

Student Name : AkaBU. Kaleulan

Batch

: 2020 - 2024

1 III Year/Semester:

Date: 24/12/2021

Type of Activity: Value added course / Industrial Visit / Implant Training /Guest Lecturer/ Seminar / Conference /Workshop / Design Contest/ Project Contest / Sports/ Games/ Social Activities / Certificate Program / Diploma Course/hackathon/ Ideathon / or any Organizing Institute: Excel Engineering college

Place: Safety Engineering lab

Provide your level of attainment for the following questions  $y \checkmark$  in the given, [3/2/1 Indicates Level of Attainment; 3 – Very Much, 2 – Moderate, 1 – Some Extent]

1

- 1. Does this Activity/ Course improve your Technical Skill?
  - 2 🗆 3 7

3 PI

2. Does this Activity /Course improve your Problem Solving Skill?

3 7 2 1

2

3. Does this training / Course improve your practical Exposure?

		NU		if yes name of tool	
5.	Does thi	s activ	vity /tra	ining useful to improve your pi	ofessional ethics?
	3 🗹		2		ne dan M
,6.	Does thi	s acti	vity /tra	ining useful to apply for any m	odern research,programs?
1.0.	3 0	法等	2 🗆	1 🗆 H C'ANG	Akaren. kan
7.	Have yo	u got	any ide	as to improve our environment	ral & social needs?
	3 🗹		2 🗆	1	
8.	Have yo	u eve	er felt t	nat your communication skill &	a leadership skill has been improve
					Studie Program (1996)
9.	Does thi	s Acti	vity / tr	aining useful to improve learnir	ng attitude with zeal?
	3 🛛		2 🗆	1	
10.	Does thi	is Acti	vity /tra	iining useful for you to work in	multi-disciplinary team?
	3 🗹		2 🗆	1	and a second
11.	Does thi	is Acti	vity /tra	iining improve your mind to fac	e any changes in your life?
	3 Ø		2 🗆	1 🗌	e attending die geschieden der eine geschieden die stellte die stellte die stellte die stellte die stellte die Nationalise
ny oti	her Com	ment	5:		
			-199	and the second	and the second se
				an and a state of the second second	
- H	1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	· 王莽雄 	1993. A.M.		and the second



**Excel** ENGINEERING COLLEGE Komarapalayam-637303

DEPARTMENT OF BE ACHOIL and the

#### ACADEMIC YEAR: 2021- 2022\_

Indirect Assessment of Program Outcomes& Program Specific Outcomes

## through Curricular and Extracurricular Activities

Student Name : ST. BOLD KTICH PO

Batch

: 2020-2024 Whiten histor & landhigsthire fun svorge Date: 24/12/2021

Year/Semester:

Type of Activity: Value added course / Industrial Visit / Implant Training /Guest Lecturer/ Seminar / Conference /Workshop / Design Contest/ Project Contest / Sports/ Games/ Scoral Activities / Certificate Program / Diploma Course/hackathon/ Ideathon / or any

Organizing Institute: Excel Engineering for thege

Place: Safety Engineering lab.

Provide your level of attainment for the following questions  $v \checkmark in$  the given,

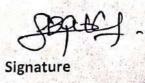
[3/2/1 Indicates Level of Attainment; 3 – Very Much, 2 – Moderate, 1 – Some Extent]

1

1

- 1. Does this Activity/ Course improve your Technical Skill?
  - 3 🗹 2 🗆
- 2. Does this Activity /Course improve your Problem Solving Skill?
  - 3 🖉 2 🗆
- 3. Does this training / Course improve your practical Exposure?

			yes name of tool	
5.	Does this a	activity /traini	ng useful to improve your professional ethics?	
	3 🗹	2 🗆	1	
6.	Does this a	activity /trainii	ng useful to apply for any modern research programs?	
	3 🗹	2 🗌	1	
7.	Have you g	got any ideas t	o improve our environmental & social needs?	
	3 🗹	2 🗆	1	
8.		ever felt that iis activity?	your communication skill & leadership skill has been impro	2ve)
	3 🗹	2 🗆	1	
9.	Does this A	Activity / traini	ng useful to improve learning attitude with zeal?	
	3 🗹	2 🗆		
10	. Does this A	Activity /trainin	g useful for you to work in multi-disciplinary team?	
	3 🗹	2 🗆	1	
11	. Does this A	Activity /trainir	g improve your mind to face any changes in your life?	
	3	2 🗆	1	
iy ot	ther Comme	ents:		





Excel Engineering College (Autonomous) Komarapalayam - 637303



4+ Grade (3.26)



INSTITUTION S

# **AARIFSULTHAN J**

CERTIFICATE

OF APPRECIATION

has completed

Value Added Course on "Hazard Prevention in Manufacturing Process" from 16.12.2021 to 24.12.2021 **Organized by Department of Safety and Fire** Engineering. K. Baufathy

S. Rum Kr.J

SLIDESMANIA.COM

**Course Coordinator** 

Head - SFE



E - AERO MECH CSF FCF

SLIDESMANIA.COM

Excel Engineering College (Autonomous) Komarapalayam - 637303



INSTITUTION S

# **MUHAMMED ASHMAL**

CERTIFICATE

OF APPRECIATION

## has completed

Value Added Course on "Hazard Prevention in Manufacturing Process" from 16.12.2021 to 24.12.2021 **Organized by Department of Safety and Fire** Engineering. K. Barpetty

S. S.m. Kul

1+ 6rade (3.26)

**Course** Coordinator

Head - SFE



Excel Engineering College (Autonomous) Komarapalayam - 637303

CERTIFICATE

OF APPRECIATION



SLIDESMANIA.COM





INSTITUTIONS BINOVATION COUNCIL

## DHARMENDRA KUMAR

## has completed

Value Added Course on "Hazard Prevention in Manufacturing Process" from 16.12.2021 to 24.12.2021 Organized by Department of Safety and Fire Engineering. K. Juppt

**Course Coordinator** 

Head - SFE