



EXCEL ENGINEERING COLLEGE
(Autonomous)

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
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





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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

Activity Coordinator
HoD / SFE



Excel[®] ENGINEERING COLLEGE (AUTONOMOUS)

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Recognized by UGC (2f & 12B)



Date

16.12.2021
To
24.12.2021

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 PPE Kit Study by Dr.K.BOOPATHY, AP / 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.
Day-5 Poster Making, Mr.ANU ALEX, AP / SF
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, 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

Days	Proposed Activity/Task	Timelines (Days)							
		1	2	3	4	5	6	7	8
Day-1	Fire Extingulsher Training And PPT Kit Study								
Day-2	Modeling Of Metal Casting Process								
Day-3	Training On Sheet Metal Fabrication								
Day-4	First Aid Training								
Day-5	Poster Making								
Day-6	Cade Modeling								
Day-7	Technical Quiz								
Day-8	Lathe Machine Operations								

Anupriya
16/12/21
Course Coordinator

K. R. Prasad
16/12/21
HOD

S
16/12/21
Director Administration

S. P. Subramanian
Director Academics

H
16/12/21
Principal



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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



EXCEL ENGINEERING COLLEGE

(Autonomous)

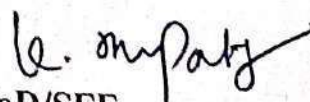
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DEPARTMENT OF SAFETY AND FIRE ENGINEERING ACADEMIC YEAR 2021-22

Value Added Course Syllabus

HAZARD PREVENTION IN MANUFACTURING PROCESS	
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 assemblies, 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	Poster Making 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 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


Course Coordinator


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DEPARTMENT OF SAFETY AND FIRE ENGINEERING

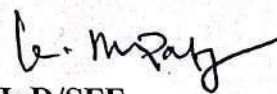
ACADEMIC YEAR 2021-22

VALUE ADDED COURSE ON "HAZARD PREVENTION IN MANUFACTURING PROCESS"

SCHEDULE

DAYS	Training Particulars	Course Instructor
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


Course Coordinator


HoD/SFE



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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



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DEPARTMENT OF SAFETY AND FIRE ENGINEERING ACADEMIC YEAR 2021-22

VALUE ADDED COURSE ON "HAZARD PREVENTION IN MANUFACTURING PROCESS"

SAMPLE PHOTOS





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Course Coordinator

HOD/SFE



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DEPARTMENT OF SAFETY AND FIRE ENGINEERING ACADEMIC YEAR 2021-22

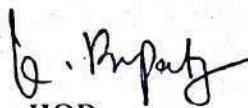
VALUE ADDED COURSE ON "HAZARD PREVENTION IN MANUFACTURING PROCESS"

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


HOD



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DEPARTMENT OF SAFETY AND FIRE ENGINEERING ACADEMIC YEAR 2021-22

VALUE ADDED COURSE ON "HAZARD PREVENTION IN MANUFACTURING PROCESS"

PARTICIPANTS LIST

Year/Sem : II/III

Sl. No.	Roll No.	Student Name	Student Signature
1	20SF001	AARIFSULTHAN.J	J. Aarifsulthan
2	20SF002	AKASH KRISHNAN	Akash Krishnan
3	20SF003	BALAKRISHNA.S.T	Balakrishna S.T
4	20SF004	BEN JACOB FRANCIS	Ben Jacob Francis
5	20SF005	DHARMENDRA KUMAR	Dharmendra Kumar
6	20SF006	FAHEEM.E.K	Faheem E.K
7	20SF007	FAZALU RAHMAN.K	Fazalu Rahman K
8	20SF008	JIBIN MATHEW	Jibin Mathew
9	20SF010	JOTHEESWARAN.A	Jotheeswaran A
10	20SF011	MUHAMMED ASHMAL	Muhammed Ashmal
11	20SF012	RAJESH.R	Rajesh R
12	20SF013	SABESH.T	Sabesh T
13	20SF015	SUGUMAR.E	Sugumar E
14	20SF017	VIMAL ADHITHAN.J	Vimal Adhithan J
15	21LSF021	RAJKUMAR R.	Rajkumar R

S. S. S. S.
Course Coordinator

V. P. P. P.
HoD/SFE



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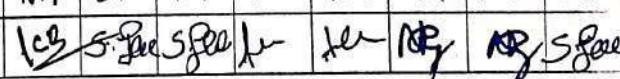
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DEPARTMENT OF SAFETY AND FIRE ENGINEERING ACADEMIC YEAR 2021-22

VALUE ADDED COURSE ON "HAZARD PREVENTION IN MANUFACTURING PROCESS"

ATTENDANCE SHEET

Year/Sem : II/III

Sl. No.	Roll No.	Student Name	16.12.2021	17.12.2021	18.12.2021	20.12.2021	21.12.2021	22.12.2021	23.12.2021	24.12.2021
1	20SF001	AARIFSULTHAN.J	/	/	/	/	/	/	/	/
2	20SF002	AKASH KRISHNAN	/	/	/	/	/	/	/	a
3	20SF003	BALAKRISHNA.S.T	/	/	/	/	/	/	/	/
4	20SF004	BEN JACOB FRANCIS	/	/	/	/	/	/	/	/
5	20SF005	DHARMENDRA KUMAR	/	/	/	/	/	/	/	/
6	20SF006	FAHEEM.E.K	/	/	/	/	/	/	/	/
7	20SF007	FAZALU RAHMAN.K	/	/	/	/	/	/	/	/
8	20SF008	JIBIN MATHEW	/	a	/	/	/	/	/	/
9	20SF010	JOTHEESWARAN.A	/	/	/	/	/	/	/	/
10	20SF011	MUHAMMED ASHMAL	/	/	/	/	/	/	/	/
11	20SF012	RAJESH.R	/	/	/	/	/	/	/	/
12	20SF013	SABESH.T	/	/	/	/	/	a	/	/
13	20SF015	SUGUMAR.E	/	/	/	/	/	/	/	/
14	20SF017	VIMAL ADHITHAN.J	/	/	/	/	/	/	/	/
15	21LSF021	RAJKUMAR R	/	/	/	/	/	/	/	/
No of Students Present			15	14	/	/	/	14	15	14
No of Absent			Nil	01	Nil	Nil	Nil	01	Nil	01
Course Instructor Signature										


Course Coordinator


HoD/SFE



Excel ENGINEERING COLLEGE
Komarapalayam-637303

DEPARTMENT OF SAFETY AND FIRE ENGINEERING

ACADEMIC YEAR: 2021- 2022

Indirect Assessment of Program Outcomes& Program Specific Outcomes
through Curricular and Extracurricular Activities

Student Name : J. AARIF SULTHAN

Date: 24.12.2021

Batch : 2020 - 2024

Year/Semester: / II / III

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 questions ☐ in the given,

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

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

3 ☒ 2 ☐ 1 ☐

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

3 ☒ 2 ☐ 1 ☐

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

3 ☒ 2 ☐ 1 ☐

4. Have you learnt any modern tools through this activity/ training?

Yes ☐ No ☒ If yes name of tool _____

5. Does this activity /training useful to improve your professional ethics?

3 ☒ 2 ☐ 1 ☐

6. Does this activity /training useful to apply for any modern research programs?

3 ☒ 2 ☐ 1 ☐

7. Have you got any ideas to improve our environmental & social needs?

3 ☒ 2 ☐ 1 ☐

8. Have you ever felt that your communication skill & leadership skill has been improved through this activity?

3 ☒ 2 ☐ 1 ☐

9. Does this Activity / training useful to improve learning attitude with zeal?

3 ☒ 2 ☐ 1 ☐


10. Does this Activity /training useful for you to work in multi-disciplinary team?

3 ☒ 2 ☐ 1 ☐

11. Does this Activity /training improve your mind to face any changes in your life?

3 ☒ 2 ☐ 1 ☐

Any other Comments:


Signature



Excel ENGINEERING COLLEGE
Komarapalayam-637303

DEPARTMENT OF Safety and Fire Engineering

ACADEMIC YEAR: 2021- 2022

**Indirect Assessment of Program Outcomes & Program Specific Outcomes
through Curricular and Extracurricular Activities**

Student Name : Akash. Karthikan

Date: 24/12/2021

Batch : 2020-2024

Year/Semester: 1st III

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 ✓ in the given,

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

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

3 ☒ 2 ☐ 1 ☐

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

3 ☒ 2 ☐ 1 ☐

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

3 ☒ 2 ☐ 1 ☐

4. Have you learnt any modern tools through this activity/ training?

Yes ☐

No ☒

if yes name of tool _____

5. Does this activity /training useful to improve your professional ethics?

3 ☒

2 ☐

1 ☐

6. Does this activity /training useful to apply for any modern research programs?

3 ☒

2 ☐

1 ☐

7. Have you got any ideas to improve our environmental & social needs?

3 ☒

2 ☐

1 ☐

8. Have you ever felt that your communication skill & leadership skill has been improved through this activity?

3 ☒

2 ☐

1 ☐

9. Does this Activity / training useful to improve learning attitude with zeal?

3 ☒

2 ☐

1 ☐

10. Does this Activity /training useful for you to work in multi-disciplinary team?

3 ☒

2 ☐

1 ☐

11. Does this Activity /training improve your mind to face any changes in your life?

3 ☒

2 ☐

1 ☐

Any other Comments:

Signature





Excel ENGINEERING COLLEGE
Komarapalayam-637303

DEPARTMENT OF BE Safety and fire
ACADEMIC YEAR: 2021-2022

**Indirect Assessment of Program Outcomes & Program Specific Outcomes
through Curricular and Extracurricular Activities**

Student Name : ST. BALAKRISHNA

Date: 24/12/2021

Batch : 2020-2024

Year/Semester: I/II

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 ✓ in the given,

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

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

3 ☒ 2 ☐ 1 ☐

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

3 ☒ 2 ☐ 1 ☐

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

3 ☒ 2 ☐ 1 ☐

4. Have you learnt any modern tools through this activity/ training?

Yes ☐

No ☒

If yes name of tool _____

5. Does this activity /training useful to improve your professional ethics?

3 ☒

2 ☐

1 ☐

6. Does this activity /training useful to apply for any modern research programs?

3 ☒

2 ☐

1 ☐

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1 ☐

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10. Does this Activity /training useful for you to work in multi-disciplinary team?

3 ☒

2 ☐

1 ☐


11. Does this Activity /training improve your mind to face any changes in your life?

3 ☒

2 ☐

1 ☐

Any other Comments:


Signature



Excel Engineering College (Autonomous)
Komarapalayam - 637303



CERTIFICATE OF APPRECIATION

AARIFSULTHAN J

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.**

Course Coordinator

Head - SFE



Excel Engineering College (Autonomous)
Komarapalayam - 637303



BE - AERO MECH CSE ECE



A+ Grade (3.26)



CERTIFICATE OF APPRECIATION

MUHAMMED ASHMAL

has completed

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Course Coordinator

Head - SFE



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



A+ Grade (3.26)



CERTIFICATE OF APPRECIATION

DHARMENDRA KUMAR

has completed

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Manufacturing Process" from 16.12.2021 to 24.12.2021
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Course Coordinator

Head - SFE