



## EXCEL ENGINEERING COLLEGE

(Autonomous)

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

### DEPARTMENT OF AGRICULTURE ENGINEERING

ACADEMIC YEAR (2021-22)

#### VALUE ADDED COURSE OFFERED

S.No	Name of the Value Added Courses (with 30 or more Contact Hours) Offered	Course Code, if any	No. of Times Offered During the Year	Duration of Course (in hours)	Number of Students Enrolled During the Year	Number of Students who Completed the Course During the Year
1	Applications of CNC Machines in Agriculture Sector	Nil	20.01.2022 to 31.01.2022	40 Hrs	76	76
2	Value Addition and Processing of Agri Products	Nil	20.01.2022 to 31.01.2022	40 Hrs	82	82

  
HoD/AGRI



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AGRICULTURE ENGINEERING  
EXCEL ENGINEERING COLLEGE  
KOMARAPALAYAM 637 303





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**DEPARTMENT OF AGRICULTURE ENGINEERING**

**CIRCULAR**

AGRI/2021-22/VAC-01

Dear Students,

**Sub: Conducting Value Added Course – reg.**

We have planned to conduct a Value Added Course on "Applications of CNC Machines in Agriculture Sector" from 20<sup>th</sup> January 2022 to 31<sup>st</sup> January 2022 (10 Days). Hence, all the III Year students are informed to attend this course.

Submitted for approval.

*12/10/22*  
**Course Coordinator**  
(*BUARANI V*  
*AP/AGRI*)

*[Signature]*  
**HOD/Agri**

**HEAD OF THE DEPARTMENT  
AGRICULTURE ENGINEERING  
EXCEL ENGINEERING COLLEGE  
KOMARAPALAYAM 637 303**



APPLICATIONS OF CNC MACHINES IN AGRICULTURE SECTOR	
Course Duration: 40 HOURS	
DAY	TRAINING PARTICULARS
Day 1 (20.01.22)	Introduction to Computer Numerical Control (CNC)
Day 2 (21.01.22)	Blue print reading
Day 3 (22.01.22)	Auto CAD Basic
Day 4 (24.01.22)	CNC Turning
Day 5 (25.01.22)	Part Program for CNC Turning Operations
Day 6 (26.01.22)	Conventional Milling Awareness
Day 7 (27.01.22)	CNC Milling
Day 8 (28.01.22)	Part Program for CNC Machining Operations
Day 9 (29.01.22)	Part Program for CNC Machining Operations
Day 10 (31.01.22)	Feedback & Valedictory Function

### Course Coordinators

Mr.V.R.VELLINGIRI & Mr.V.BHARATH  
Assistant Professor  
Department of Agriculture Engineering  
Excel Engineering College  
Namakkal - 637303



*[Signature]*  
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AGRICULTURE ENGINEERING  
EXCEL ENGINEERING COLLEGE  
KOMARAPALAYAM 637 303

# **EXCEL ENGINEERING COLLEGE**

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## **DEPARTMENT OF AGRICULTURE ENGINEERING**

**Cordially invite you to the valedictory function of the**

**Value Added Course**

**APPLICATIONS OF CNC MACHINES IN**

**AGRICULTURE SECTOR**

**On Monday 31st January, 2022**

**at 12.30 am in virtual mode**

**Dr. G. Vijayakumar**

**Professor & Head, Department of Agriculture Engineering**

**Will deliver the Felicitation Address**

**All are Welcome**

**Course Coordinators**

**Mr.V.R.Vellingiri**

**Mr.V.Bharath**

**Organizing Committee Members**

**Mr.A.V.Gowtham**

**Mr.R.Saranya**

**Mr.C.Manoj Prabhu**

**Mr.M.Murugesan**

**Mr.S.Rameshkumar**





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## DEPARTMENT OF AGRICULTURE ENGINEERING

### Value Added Course Syllabus

APPLICATIONS OF CNC MACHINES IN AGRICULTURE SECTOR	
Training Period	10 Days (40 Hours)
Training Venue	Online - Google Meet
DAY	DETAILS
Day 1	<b>Introduction to Computer Numerical Control (CNC)</b> Numerical control • Functions of a machine tool • Concept of numerical control • Historical Development •
Day 2	<b>Introduction to Computer Numerical Control (CNC)</b> Definition • Advantages of CNC machine tools • Evolution of CNC • Advantages of CNC • Limitations of CNC • Features of CNC • The Machine Control Unit (MCU) for CNC • Classification of CNC Machine Tools • CNC MACHINING CENTERS → Classification → Features Of CNC Machining Centers.
Day 3	<b>Blue print reading</b> Reading the machining sketches • Different Geometrical Tolerance symbols. • Reading Dimensional Tolerances. • Understanding the Views. • Concept of First angle & Third angle projection.
Day 4	<b>Auto CAD Basic</b> Sketching Points line, Circles & Arcs. • Simple exercises based on above. • Isometric Views. • Splines & poly lines • Identifying the points in given drawing.
Day 5	<b>CNC Turning</b> Work piece setting methods • Tool setting methods • Practice on CNC Turning. • Exercises on machine & Practice.
Day 6	<b>CNC Turning</b> • Practice on CNC Turning. • Exercises on machine & Practice.
Day 7	<b>Conventional milling Awareness</b> • Introduction to milling machine & its parts. • Different operations of milling. Plain milling Step milling Slot milling Pocket milling Co-ordinate drilling Job setting in vice by dialing Job setting on bed with clamps • Knowledge of different cutting tool materials used • Selecting speed feeds & depth of cut • Indexing(simple & compounding)
Day 8	<b>CNC Milling</b> • Fundamentals of CNC milling • Familiarization of control panel • Fundamentals of CNC programming • Part programming techniques • Machining practice on CNC Milling
Day 9	<b>CNC Milling</b> Machining practice on CNC Milling
Day 10	Conclusions & Discussion.



# EXCEL ENGINEERING COLLEGE (AUTONOMOUS) KOMARAPALAYAM, NAMAKKAL.

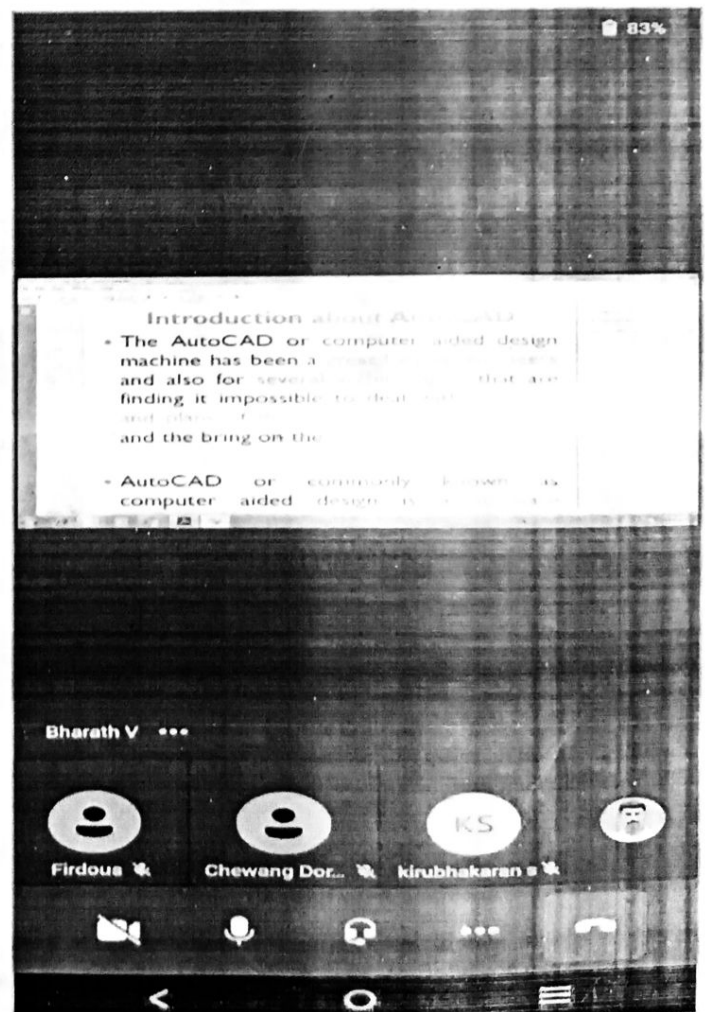
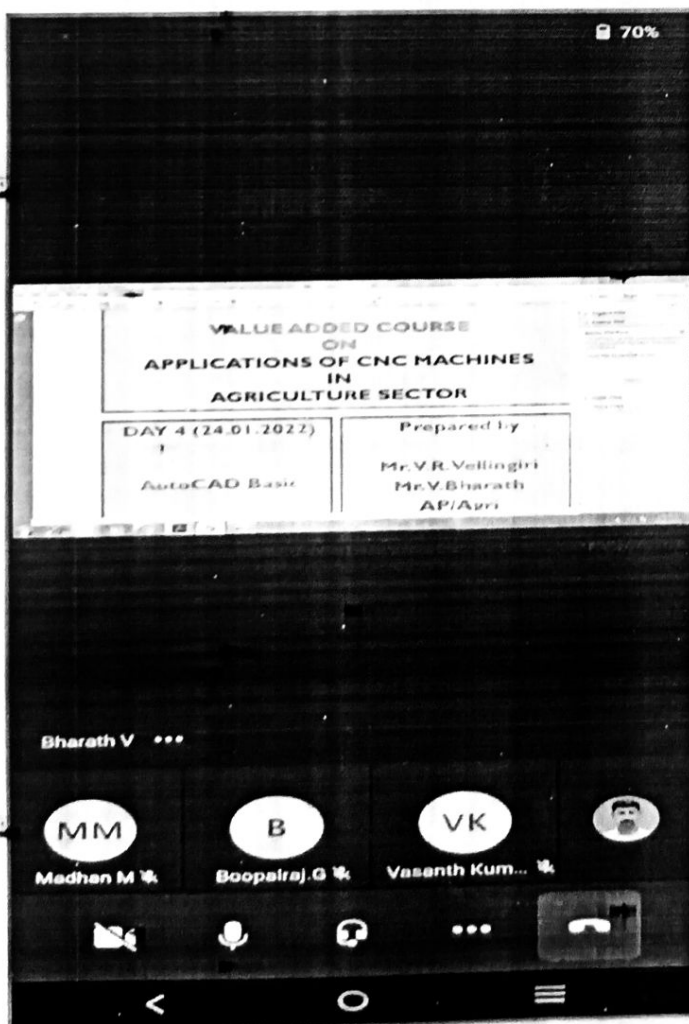
## DEPARTMENT OF AGRICULTURE ENGINEERING VALUE ADDED COURSE ON APPLICATIONS OF CNC MACHINES IN AGRICULTURE SECTOR

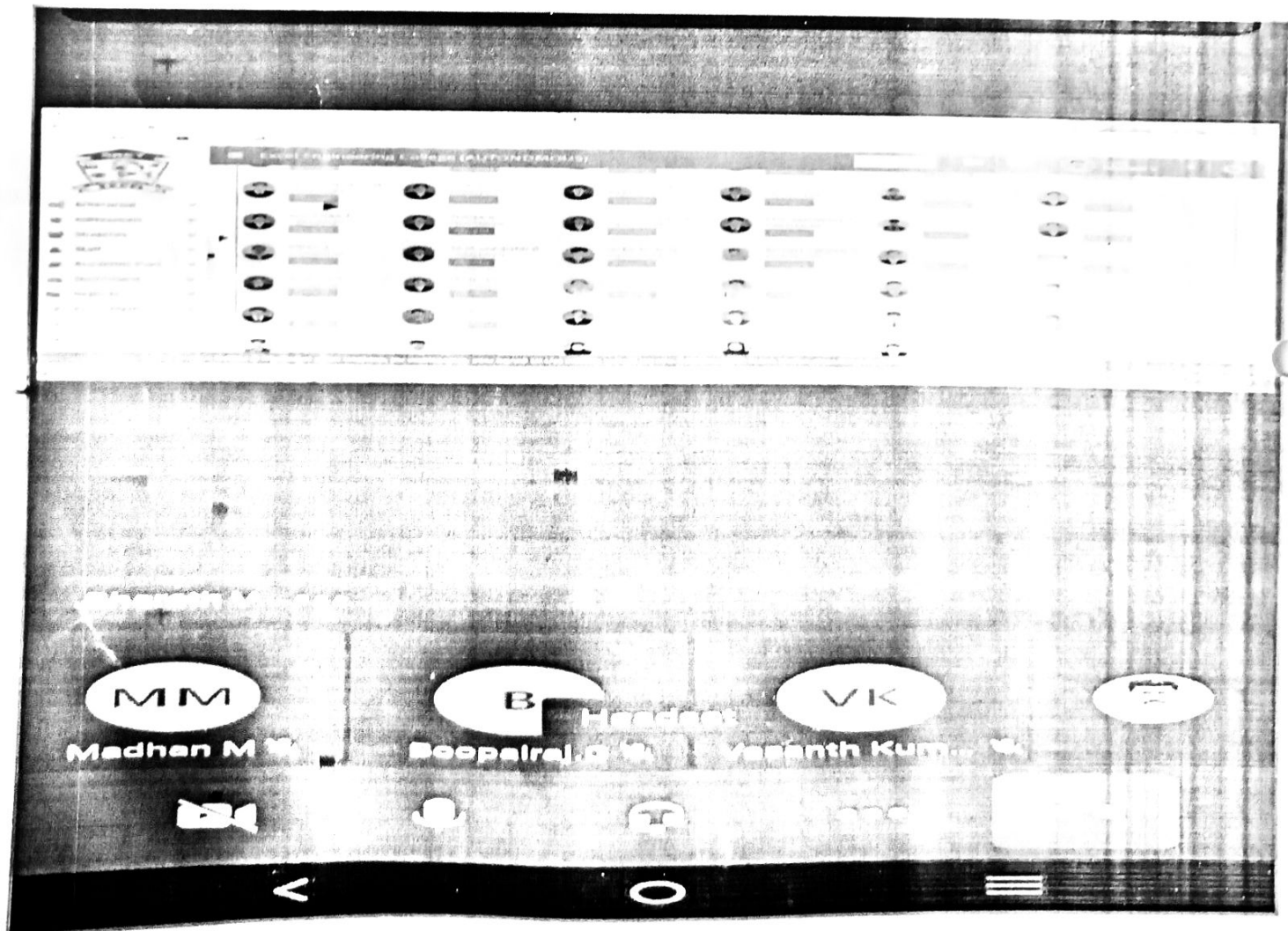
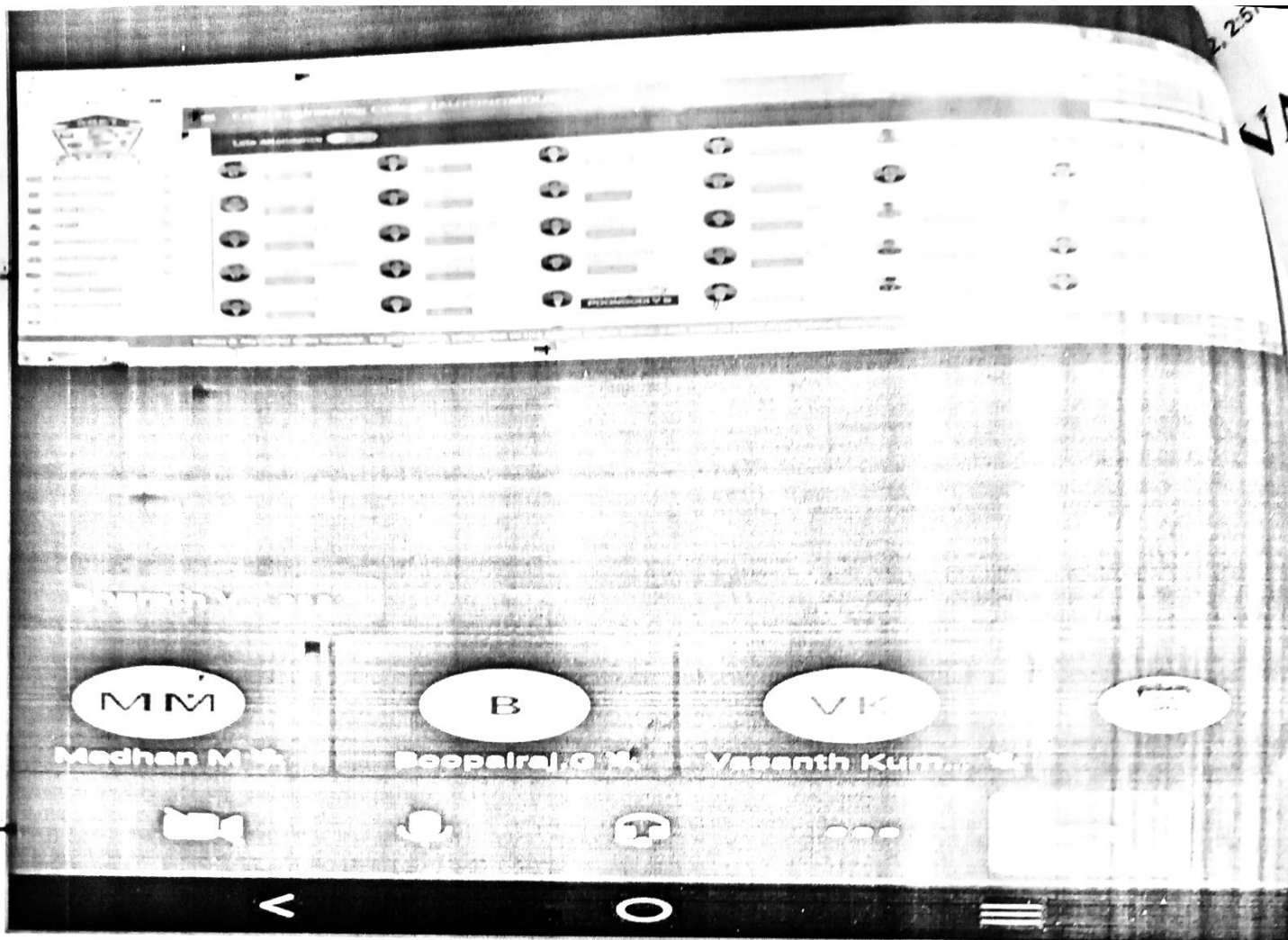
Year/Sem: III/VI

Day 4 (24.01.22) AutoCAD Basic

### Contents Delivered

- Introduction about AutoCAD
- Advantages of AutoCAD
- AutoCAD Display
- AutoCAD Commands
- History and Development
- Disadvantages of AutoCAD
- Versions of AutoCAD
- Practice drawings





# VAC on Applications of CNC Machines in Agriculture Sector - Quiz - Day 1 (22.01.22)

Answer all the questions.

Write your details. (19AGE001 - Ajithkumar)

Everyone should attend the quiz one time only.

1. Which purposes, the milling machine is used

(1 point)

To produce irregular surfaces.

Create flat surfaces.

To produce slots within an object.

To produce holes.

2. Conventional machining is a

(1 point)

• Open System

○ Closed system

○ Isolated system

○ Feedback system

3. \_\_\_\_\_ is the process of enlarging a hole that has already been drilled (or cast)

(1 point)

○ Grinding

○ Turning

○ Drilling

• Boring

4. Choose the components of NC system.

(1 point)

Program

Machine Control Unit

Processing Equipment

Vacuum tubes

5. In which year DNC machine was developed?

(1 point)

○ 1960

☒ 1968

☐ 1965

☐ 1955

6. DNC is a Direct Numerical Control Machine

(1 point)

☐ No

☒ Yes

7. During the \_\_\_\_\_ process, a cutting tool removes material from the outer diameter of a rotating work piece. (1 point)

☐ Grinding

☒ Turning

☐ Drilling

☐ Slotting

8. Lead time = Pre-processing time + processing time + post-processing time

(1 point)

☒ Yes

☐ No

9. Which one is the unconventional machining process?

(1 point)

☐ Broaching

☐ Turning

☒ Laser beam machining

☐ Slotting

10. In which year CNC machine was developed?

(1 point)

☐ 1960

☒ 1970

☐ 1965

☐ 1955

## VAC on Applications of CNC Machines in Agriculture Sector - Final Assessment (31.01.22)

19AGE015 - JUWANITA. A

Jan. 31, 2022, 12:04 p.m.

Thanks for taking the Assessment Test. Stay Home.. Stay Safe....!!!

Your score: 83% 25 / 30

Duration: 0:23:33

Excellent. Keep it!

1. Conventional machining is a

1 / 1 point

Your Answer: ✓ Correct

- ✓ ☒ Open System
- ☐ Closed system
- ☐ Isolated system
- ☐ Feedback system

2. \_\_\_\_\_ is the process of enlarging a hole that has already been drilled (or cast)

1 / 1 point

Your Answer: ✓ Correct

- ☐ Grinding
- ☐ Turning
- ☐ Drilling
- ✓ ☒ Boring

3. In which year DNC machine was developed?

1 / 1 point

Your Answer: ✓ Correct

- ☐ 1960
- ✓ ☒ 1968
- ☐ 1965
- ☐ 1955

4. Lead time = Pre-processing time + processing time + post-processing time

1 / 1 point

Your Answer: ✓ Correct

- ✓ ☒ Yes
- ☐ No

5. In which year CNC machine was developed?

0 / 1 point

Your Answer: ✗ Incorrect

- ✗ ☒ 1960
- ✓ ☐ 1970



☐ 1965

☐ 1955

6. Which of the following letters can NOT be used to identify a datum?

✓ Your Answer: ✓ Correct

☐ I

☐ O

☐ Q

✓ ☒ All of the above

7. 3rd angle projection is recommended by \_\_\_\_\_

✓ Your Answer: ✓ Correct

✓ ☒ USA

☐ ISI

☐ Bureau of Indian Standards

☐ IS

8. In 1st angle projection the object is kept in \_\_\_\_\_

✓ Your Answer: ✓ Correct

☐ II quadrant

✓ ☒ I quadrant

☐ III quadrant

☐ IV quadrant

9. Which type of tolerance provided in drilling operation mostly?

✓ Your Answer: ✓ Correct

☐ Bilateral

✓ ☒ Unilateral

☐ Trilateral

☐ Compound

10. What is bilateral tolerance?

✓ Your Answer: ✓ Correct

☐ Total tolerance is in 1 direction only

☐ May or may not be in one direction

✓ ☒ Total tolerance is in both the directions

☐ Tolerance provided all over the component body

0 / 1 point

In AutoCAD, the number of workspaces are,

Your Answer: ✗ Incorrect

- ☐ 1
- ✗ ☒ 3
- ☐ 4
- ✓ ☐ 2

0 / 1 point

12. Tell, how many AutoCAD objects are in a rectangle?

Your Answer: ✗ Incorrect

- ☐ Three
- ✗ ☒ Two
- ✓ ☐ One
- ☐ Four

1 / 1 point

13. The origin of a drawing is at \_\_\_\_?

Your Answer: ✓ Correct

- ☐ 0,1
- ✓ ☒ 0,0
- ✗ ☐ 1,0
- ☐ 1,1

1 / 1 point

14. Shortcut for Trim command is,

Your Answer: ✓ Correct

- ✓ ☒ TR
- ☐ TI
- ☐ T
- ☐ X

0 / 1 point

15. What is the shortcut for zoom command?

Your Answer: ✗ Incorrect

- ✗ ☒ Z Command
- ☐ Rotate mouse wheel
- ☐ ZOOM Command
- ✓ ☐ All of the above

1 / 1 point

16. In AutoCAD 2D Modelling, which axis is not accessible for drafting?

Your Answer: ✓ Correct



- ☐ X  
☐ Y  
✓ ☒ Z  
☐ UCS

17. AutoCAD was developed by

1 / 1 point

Your Answer: ✓ Correct

- ☐ Microsoft Corp.  
✓ ☒ Autodesk Inc.  
☐ Apple Inc.  
☐ None of the above

18. CAD software is used by \_\_\_\_\_

1 / 1 point

Your Answer: ✓ Correct

- ☐ Architects  
☐ Engineers  
☐ Drafters & Artists  
✓ ☒ All of the above

19. Which of the following code will give point to point movement?

1 / 1 point

Your Answer: ✓ Correct

- ✓ ☒ G00  
☐ G01  
☐ G56  
☐ G94

20. S1000 indicates

1 / 1 point

Your Answer: ✓ Correct

- ✓ ☒ speed  
☐ feed  
☐ depth of cut  
☐ radius

21. Which of the following code is used to specify feed per revolution in turning?

1 / 1 point

Your Answer: ✓ Correct

- ✓ ☒ G99  
☐ G98

☐ G78

☐ G45

22. Which of the following code is used in programming in absolute coordinates?

1 / 1 point

Your Answer: ✓ Correct

✓ ☒ G90

☐ G32

☐ G92

☐ G01

23. Which of the following code will give linear interpolation movement?

1 / 1 point

Your Answer: ✓ Correct

☐ G00

☐ G65

✓ ☒ G01

☐ G78

24. In a CNC program block N010 G02 G91 X55 Z5, G02 represents

1 / 1 point

Your Answer: ✓ Correct

☐ linear interpolation

☐ counterclockwise circular interpolation

☐ incremental command

✓ ☒ clockwise circular interpolation

25. Which of the following code is used in thread cutting in turning?

1 / 1 point

Your Answer: ✓ Correct

✓ ☒ G32

☐ G89

☐ G20

☐ G74

26. Which of the following code is used to give cutter offset compensation, right of a part surface?

0 / 1 point

Your Answer: ✗ Incorrect

☐ G00

✗ ☒ G41

✓ ☐ G42

☐ G91

27. In a CAD Package, clockwise circular arc radius 5, specified from P1 (15,10) to P2 (10,15) will have its centre at

Your Answer: ✓ Correct

- ☐ 10,10  
☐ 15,10  
✓ ☒ 15,15  
☐ 10,15

28. Which of the following code will change specified input values in millimeters?

1 / 1 point

Your Answer: ✓ Correct

- ☐ G01  
☐ G04  
✓ ☒ G20  
☐ G00

29. Which of the following code is used to specify location of co-ordinate Axis System origin relative to starting location of cutting tool?

1 / 1 point

Your Answer: ✓ Correct

- ☐ G17  
☐ G91  
✓ ☒ G92  
☐ G00

30. In CNC Part Program T01 indicates

1 / 1 point

Your Answer: ✓ Correct

- ✓ ☒ Tool Number  
☐ Linear Interpolation  
☐ Tool Changer  
☐ Tool holder

## Student Feedback - VAC on Applications of CNC Machines in Agriculture Sector (31.01.22)

19AGE028 -POOJA K  
Jan. 31, 2022, 12:34 p.m

Thanks for your valuable feedback Stay Home.. Stay Safe...!!!

Your score: 100% 0/0

### 1. Course Content

0 points

Your Answer:

☐ Excellent

☐ Very good

☒ Good

☐ Fair

☐ Satisfactory

### 2. Skill Development

0 points

Your Answer:

☐ Excellent

☒ Very good

☐ Good

☐ Fair

☐ Satisfactory

### 3. Motivation

0 points

Your Answer:

☐ Excellent

☐ Very good

☒ Good

☐ Fair

☐ Satisfactory

### 4. Regularity and Punctuality of Teacher

0 points

Your Answer:

☐ Excellent

☒ Very good

☐ Good

☐ Fair

☐ Satisfactory

### 5. Regularity and Punctuality of Teacher

0 points

Your Answer:

☒ Excellent

☐ Very good

☐ Good

☐ Fair

☐ Satisfactory

### 6. Coverage of syllabus

0 points

Your Answer:

☐ Excellent

☒ Very good

☐ Good

☐ Fair

☐ Satisfactory

### 7. Interaction

0 points

Your Answer:

☐ Excellent

☒ Very good

☐ Good

☐ Fair

☐ Satisfactory

### 8. Outcome

0 points

Your Answer:

☐ Excellent

☒ Very good

☐ Good

☐ Fair

☐ Satisfactory

### 9. Were Objectives of the course realized?

0 points

Your Answer:

☒ Yes

☐ No

### 10. Other suggestions

0 points


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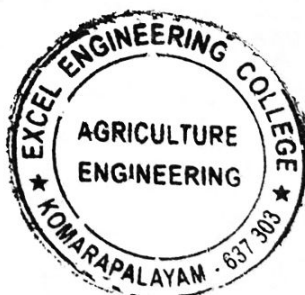
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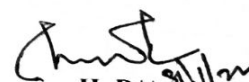
**DEPARTMENT OF AGRICULTURE ENGINEERING****VALUE ADDED COURSE ON APPLICATIONS OF CNC MACHINES IN AGRICULTURE SECTOR****PARTICIPANTS STUDENTS LIST****Year/Sem : III/V****AY: 2021-22**

Sl. No.	Roll No.	Student Name	Remarks
1	19AGE001	AJITH KUMAR K	
2	19AGE002	ARTHI V	
3	19AGE003	BIRINDHAA I	
4	19AGE004	BOOPAL RAJ G	
5	19AGE005	CHEWANG DORJEE TAMANG	
6	19AGE006	DEEPAK KUMAR	
7	19AGE007	DEEPIKA T	
8	19AGE009	DHARANISH B T	
9	19AGE010	DHARSHINI S	
10	19AGE011	DHINAGAR A M	
11	19AGE012	ELAIYA BARATHI J	
12	19AGE014	JAGATH V	
13	19AGE015	JUWANITA A	
14	19AGE016	KAMALISRI N	
15	19AGE017	KAYALVIZHI K	
16	19AGE018	KIRUBA DARTHI P	
17	19AGE019	KIRUBHAKARAN S	
18	19AGE020	KRISHUN K R	
19	19AGE021	LAKSHMI NARAYANAN A	
20	19AGE022	LISA ANTO L	
21	19AGE023	MADHAN M	
22	19AGE024	MAHAMUNI M	
23	19AGE025	MANOJ KUMAR J	
24	19AGE026	NISHANTHINI B	
25	19AGE027	PAVITHRA C	
26	19AGE028	POOJA K	
27	19AGE029	POONGODI V S	
28	19AGE030	POORAGAVAN P	
29	19AGE032	PRAKASH M	
30	19AGE033	PRIYA S	
31	19AGE035	RAJALAKSHMI P	
32	19AGE037	RANJITH K G	
33	19AGE038	RITESH KUMAR	
34	19AGE039	ROSHAN M S	
35	19AGE040	SANJAY R	

36	19AGE042	SUBASH S	
37	19AGE043	TAMIL SOLAI G	
38	19AGE044	THANGAM M	
39	20LAGE045	AZHAGARASAN B	
40	20LAGE046	DHINESH KUMAR S	
41	20LAGE047	DINESHKUMAR S	
42	20LAGE048	POOVARASAN V	
43	20LAGE049	PREM D	
44	20LAGE050	RANJITHKUMAR M	
45	20LAGE058	VASANTH KUMAR D	
46	20TRAGE051	AGILAN S	
47	20TRAGE052	AKASH T	
48	20TRAGE053	BALAGI G	
49	20TRAGE054	DEVAN C	
50	20TRAGE055	FIRDOUS FATHIMA G	
51	20TRAGE056	NASRIN M	
52	20TRAGE057	RITHICK ROSHAN K S	

  
 Course Coordinator  
 (BHARATH V  
 AP/11/12)



  
 HoD/Agri

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## DEPARTMENT OF AGRICULTURE ENGINEERING

### VALUE ADDED COURSE ON APPLICATIONS OF CNC MACHINES IN AGRICULTURE SECTOR

#### PARTICIPANTS STUDENTS LIST

Year/Sem : I/I

AY: 2021-22

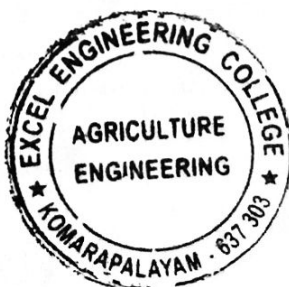
Sl. No.	Roll No.	Student Name	Remarks
1	21AG001	AATRAL ARASU.E	
2	21AG003	ABIRAMI.J	
3	21AG005	AKILA.S	
4	21AG006	AMIT KUMAR	
5	21AG007	ANAND SAGAR	
6	21AG008	ANJU KUMARI	
7	21AG010	ANSHU KUMAR SAH	
8	21AG011	ASHIFA.S	
9	21AG012	BIPIN KUMAR	
10	21AG013	BIPIN KUMAR BHARDAR	
11	21AG015	DHANUSH.M	
12	21AG016	DHANUSHREE.S	
13	21AG017	DHARANI.A	
14	21AG018	DHARANYA.M	
15	21AG019	DINESH.T	
16	21AG021	GOWTHAM.M	
17	21AG022	GURU.S	
18	21AG023	HEMALATHA.S	
19	21AG024	INBATAMIL.S	
20	21AG025	IYAPPAN.K	
21	21AG026	JEEVA.P	
22	21AG027	JITENDRA KUMAR	
23	21AG028	KALAIYARASAN.T	
24	21AG029	KANITHRA.D	

Course Coordinator

(BHARATH V  
AP/AGRI)

HoD/Agri


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## VALUE ADDED COURSE ON APPLICATIONS OF CNC MACHINES IN AGRICULTURE SECTOR

**Year/Sem : III/V**

## ATTENDANCE SHEET

AY: 2021-22

[illegible]



39	20LAGE045	AZHAGARASAN B	/	/	/	/	/	/	/	/	/	/	/
40	20LAGE046	DHINESH KUMAR S	/	/	/	/	/	/	/	/	/	/	/
41	20LAGE047	DINESHKUMAR S	/	/	/	/	/	/	/	/	/	/	/
42	20LAGE048	POOVARASAN V	/	/	/	/	/	/	/	/	/	/	/
43	20LAGE049	PREM D	/	/	/	/	/	/	/	/	/	/	/
44	20LAGE050	RANJITHKUMAR M	/	/	/	/	/	/	/	/	/	/	/
45	20LAGE058	VASANTH KUMAR D	/	/	/	/	/	/	/	/	/	/	/
46	20TRAGE051	AGILAN S	/	/	/	/	/	/	/	/	/	/	/
47	20TRAGE052	AKASH T	/	/	/	/	/	/	/	/	/	/	/
48	20TRAGE053	BALAGI G	/	/	a	/	/	/	/	/	/	/	/
49	20TRAGE054	DEVAN C	/	/	/	/	/	/	/	/	/	/	/
50	20TRAGE055	FIRDOUS FATHIMA G	/	/	/	/	/	/	/	/	/	/	/
51	20TRAGE056	NASRIN M	/	/	/	/	/	/	/	/	/	/	/
52	20TRAGE057	RITHICK ROSHAN K S	/	/	/	/	/	/	/	/	/	/	/

Course Coordinator

(BHARAM V)  
AP/AGRI

HoD/Agri

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\* Note: Training period/ Durations: 3 hrs / Day



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**DEPARTMENT OF AGRICULTURE ENGINEERING****VALUE ADDED COURSE ON APPLICATIONS OF CNC MACHINES IN AGRICULTURE SECTOR****ATTENDANCE SHEET**

Year/Sem : I/I

AY: 2021-22

Sl. No.	Roll No.	Student Name	20.01.22	21.01.22	22.01.22	24.01.22	25.01.22	26.01.22	27.01.22	28.01.22	29.01.22	31.01.22
1	21AG001	AATRAL ARASU.E	/	/	/	/	/	/	/	/	/	/
2	21AG003	ABIRAMI.J	/	/	/	/	/	/	/	/	/	/
3	21AG005	AKILA.S	/	/	/	/	/	/	/	/	/	/
4	21AG006	AMIT KUMAR	/	/	/	/	/	/	/	/	/	/
5	21AG007	ANAND SAGAR	/	/	/	/	/	/	/	/	/	/
6	21AG008	ANJU KUMARI	/	/	/	/	/	/	/	/	/	/
7	21AG010	ANSHU KUMAR SAH	/	/	/	/	/	/	/	/	/	/
8	21AG011	ASHIFA.S	/	/	/	/	/	/	/	/	/	/
9	21AG012	BIPIN KUMAR	/	/	/	/	/	a	/	/	/	/
10	21AG013	BIPIN KUMAR BHARDAR	/	/	/	/	/	/	/	/	/	/
11	21AG015	DHANUSH.M	/	/	/	/	/	/	/	/	/	/
12	21AG016	DHANUSHREE.S	/	/	/	/	/	/	/	/	/	/
13	21AG017	DHARANI.A	/	/	/	/	/	/	/	/	/	/
14	21AG018	DHARANYA.M	/	/	/	/	/	/	/	/	/	/
15	21AG019	DINESH.T	/	/	/	/	/	/	/	/	/	/
16	21AG021	GOWTHAM.M	/	/	a	/	/	/	/	/	/	/
17	21AG022	GURU.S	/	/	/	/	/	/	/	/	/	/
18	21AG023	HEMALATHA.S	/	/	/	/	/	/	/	/	/	/
19	21AG024	INBATAMIL.S	/	/	/	/	/	/	/	/	/	/
20	21AG025	IYAPPAN.K	/	/	/	/	/	/	/	/	/	/
21	21AG026	JEEVA.P	/	/	/	/	/	/	/	/	/	/
22	21AG027	JITENDRA KUMAR	/	/	/	/	/	/	/	/	/	/
23	21AG028	KALAIYARASAN.T	/	/	/	/	/	/	/	/	/	/
24	21AG029	KANITHRA.D	/	/	/	/	/	/	/	/	/	/

Course Coordinator

(BHARATH V)  
AP/AB/RR

HoD/Agri

HEAD OF THE DEPARTMENT  
AGRICULTURE ENGINEERING  
EXCEL ENGINEERING COLLEGE  
KOMARAPALAYAM 637 303

\* Note: Training Durations: 2 hrs/  
Day





# Excel<sup>TM</sup>

## ENGINEERING COLLEGE (AUTONOMOUS)

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

### CENTRE FOR TEACHING AND LEARNING & INTERNAL QUALITY ASSURANCE CELL

This is to certify that Mr. / Ms. ELAIYA BARATHI J of

AGRICULTURE ENGINEERING Department, **Excel Engineering College (EEC)** has attended the

**VALUE ADDED COURSE** on APPLICATIONS OF CNC MACHINES IN AGRICULTURE SECTOR for 40 hours organised by

**Centre for Teaching and Learning, Internal Quality Assurance Cell and**

Department of AGRICULTURE ENGINEERING from 20.01.2022 to 31.01.2022

**Director**  
Centre for Teaching and Learning

**Principal**  
EEC

**HOD**

Department of Agriculture Engineering



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### CENTRE FOR TEACHING AND LEARNING & INTERNAL QUALITY ASSURANCE CELL

This is to certify that Mr. / Ms. JAGATH V of

AGRICULTURE ENGINEERING Department, Excel Engineering College (EEC) has attended the

**VALUE ADDED COURSE** on APPLICATIONS OF CNC MACHINES IN AGRICULTURE SECTOR for 40 hours organised by

Centre for Teaching and Learning, Internal Quality Assurance Cell and

Department of AGRICULTURE ENGINEERING from 20.01.2022 to 31.01.2022

**Director**  
Centre for Teaching and Learning

**Principal**  
EEC

**HOD**  
Department of Agriculture Engineering



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### CENTRE FOR TEACHING AND LEARNING & INTERNAL QUALITY ASSURANCE CELL

This is to certify that Mr. / Ms. **KAMALISRI N** of

**AGRICULTURE ENGINEERING** Department, **Excel Engineering College (EEC)** has attended the

**VALUE ADDED COURSE** on **APPLICATIONS OF CNC MACHINES IN AGRICULTURE SECTOR** for **40** hours organised by

**Centre for Teaching and Learning, Internal Quality Assurance Cell** and

Department of **AGRICULTURE ENGINEERING** from **20.01.2022 to 31.01.2022**

**Director**  
Centre for Teaching and Learning

**Principal**  
EEC

**HOD**

Department of Agriculture Engineering



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KOMARAPALAYAM - 637303

## DEPARTMENT OF AGRICULTURE ENGINEERING

### CIRCULAR

AGRI/2021-22/VAC-02

Date: 18.01.2022

Dear Students,

#### Sub: Conducting Value Added Course – reg.

We have planned to conduct a Value Added Course on "Value Addition and Processing of Agri Products" from 20<sup>th</sup> January 2022 to 31<sup>st</sup> January 2022 (10 Days). Hence, all the IV Year students are informed to attend this course.

Submitted for approval.

*S.P. [Signature]*  
18/1/22  
Course Coordinator

(S. RAMESH KUMAR)  
AP/Agri

*[Signature]*  
18/1/2022  
HOD/Agri

HEAD OF THE DEPARTMENT  
AGRICULTURE ENGINEERING  
EXCEL ENGINEERING COLLEGE  
KOMARAPALAYAM 637 303





# **EXCEL ENGINEERING COLLEGE**

(AUTONOMOUS)

KOMARAPALAYAM, NAMAKKAL.

## **DEPARTMENT OF AGRICULTURE ENGINEERING**

**VALUE ADDED COURSE  
ON  
VALUE ADDITION AND  
PROCESSING OF AGRI PRODUCTS**



**20<sup>th</sup> Jan 2022 to 31<sup>st</sup> Jan 2022**



<b>VALUE ADDITION AND PROCESSING OF AGRI PRODUCTS</b>	
<b>Course Duration: 45 HOURS</b>	
<b>DAY</b>	<b>TRAINING PARTICULARS</b>
Day 1	Introduction - Basic principles of adding value of farm products.
Day 2	Processing techniques of agri products.
Day 3	Working Process Stages - (i) Primary Stage Processing, (ii) Second stage Processing.
Day 4	Analyzing of product quality (Use Several method), Nutritional composition.
Day 5	Analyze the microbial counts (Level of microbial counts)
Day 6	Analyze the shelf life of agri products use recent technologies.
Day 7	Applications and importance of value addition.
Day 8	Recent research in processing techniques.
Day 9	Conclusion
Day 10	Queries & Discussion.

### Course Coordinators

Mr.S.Ramesh Kumar & Mr.A.V.Gowtham  
 Assistant Professor  
 Department of Agriculture Engineering  
 Excel Engineering College



*21/1/2022*  
 HEAD OF THE DEPARTMENT  
 AGRICULTURE ENGINEERING  
 EXCEL ENGINEERING COLLEGE  
 KOMARAPALAYAM 637 303



# **EXCEL ENGINEERING COLLEGE**

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## **DEPARTMENT OF AGRICULTURE ENGINEERING**

Cordially invite you to the valedictory function of the

**Value Added Course**

**VALUE ADDITION AND PROCESSING OF AGRI PRODUCTS**

On Monday 31<sup>st</sup> Jan, 2022  
at 12.30 pm in virtual mode

**Dr. G. Vijayakumar**

**Professor & Head, Department of Agriculture Engineering**  
Will deliver the Felicitation Address

**All are Welcome**

**Course Coordinators**

**Mr.S.Rameshkumar, AP/Agri**

**Mr.A.V.Gowtham, AP/Agri**

**Organizing Committee Members**

**Mr.V.Bharath**

**Mr.V.R.Vellingiri**

**Mr.C.Manoj Prabhu**

**Mrs.R.Saranya**



# EXCEL ENGINEERING COLLEGE

(AUTONOMOUS)

KOMARAPALAYAM, NAMAKKAL – 637 303

## DEPARTMENT OF AGRICULTURE ENGINEERING

### Value Added Course Syllabus

VALUE ADDITION AND PROCESSING OF AGRI PRODUCTS	
Training Period	10 Days (45 Hours)
Training Venue	Online - Google Meet
DAY	DETAILS
Day 1	Introduction - Basic principles of adding value of farm products.
Day 2	Processing techniques of agri products.
Day 3	Working Process Stages - (i) Primary Stage Processing, (ii) Second stage Processing.
Day 4	Analyzing of product quality (Use Several method), Nutritional composition.
Day 5	Analyze the microbial counts (Level of microbial counts)
Day 6	Analyze the shelf life of agri products use recent technologies.
Day 7	Applications and importance of value addition.
Day 8	Recent research in processing techniques.
Day 9	Conclusion
Day 10	Queries & Discussion.

Note: Training Duration: 3 Hours/day



# EXCEL ENGINEERING COLLEGE (AUTONOMOUS) KOMARAPALAYAM, NAMAKKAL.

DEPARTMENT OF AGRICULTURE ENGINEERING

## VALUE ADDED COURSE ON VALUE ADDITION AND PROCESSING OF AGRI- PRODUCTS

Year/Sem: IV/VIII

Day 1 (20.01.22) Introduction to Value addition

Contents Delivered

- Definition
- Present scenario problems.
- Advantages of Value addition.
- Limitations of Value addition.
- Features of value addition.
- Classification of Value addition process.

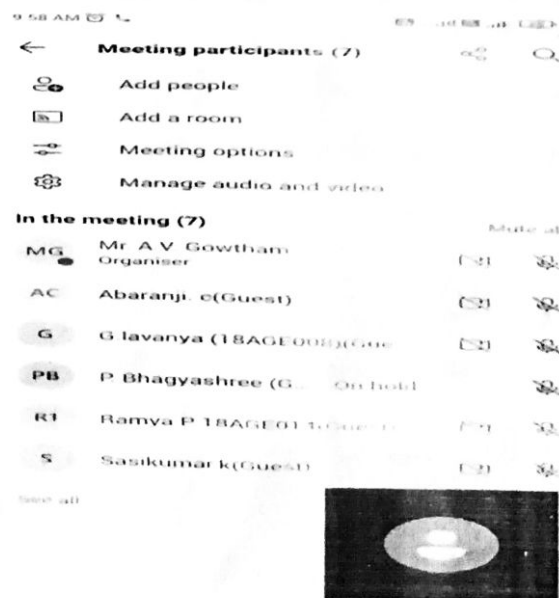


### SUMMARY

- Present scenario of agriculture in India
- Post harvest losses & the global picture
- Value added agriculture
- Strategies for "value addition"
- Agri business
- Subsectors of agri business
- Emerging areas of agri business
- Policy initiatives and taxation policies
- Supporting institutions
- Indian corporates in agri business

### PRESENT SCENARIO

- Food production in the country is adequate but it is not accessible to all.
- Inadequate income
- population
- High post harvest loss
- supply chain linking
- (estimated annual loss
- Inadequate livelihood





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## DEPARTMENT OF AGRICULTURE ENGINEERING

ACADEMIC YEAR (2021-22)

### STUDENT FEEDBACK FORM FOR VALUE ADDED COURSES

Course Name: VALUE ADDITION AND PROCESSING OF AGRI PRODUCTS

Venue: Hall No: 302

Date: 31.01.2022

Student Name : PAVATHRAM

Roll Number : 730910108012

Dear Student, You are required to give your feedback on the following aspects. Please tick in the respective column

S.No	Description	Excellent	Very good	Good	Fair	Satisfactory
1	Course Content	✓				
2	Skill Development	✓				
3	Motivation	✓				
4	Regularity and punctuality of teacher		✓			
5	Coverage of Syllabus	✓				
6	Interaction	✓				
7	Outcome	✓				
8	Other Suggestions		✓			

S.R. sek  
31/1/22  
Course Coordinator

31/1/22  
HoD/AGRI



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AGRICULTURE ENGINEERING  
EXCEL ENGINEERING COLLEGE  
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KOMARAPALAYAM - 637303

## DEPARTMENT OF AGRICULTURE ENGINEERING

ACADEMIC YEAR (2021-22)

### STUDENT FEEDBACK FORM FOR VALUE ADDED COURSES

Course Name: VALUE ADDITION AND PROCESSING OF AGRI PRODUCTS

Venue: Hall No: 302

Date: 31.01.2022

Student Name : Logeshwaran R  
Roll Number : 20AGE025

Dear Student, You are required to give your feedback on the following aspects. Please tick in the respective column

S.No	Description	Excellent	Very good	Good	Fair	Satisfactory
1	Course Content	✓				
2	Skill Development		✓			
3	Motivation		✓			
4	Regularity and punctuality of teacher	✓				
5	Coverage of Syllabus		✓			
6	Interaction	✓				
7	Outcome	✓				
8	Other Suggestions	✓				

S. R. [Signature]  
Course Coordinator 31/1/22

[Signature]  
HoD/AGRI 31/1/22



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KOMARAPALAYAM – 637303

**DEPARTMENT OF AGRICULTURE ENGINEERING****VALUE ADDED COURSE ON VALUE ADDITION AND PROCESSING OF AGRI PRODUCTS****PARTICIPANTS LIST**

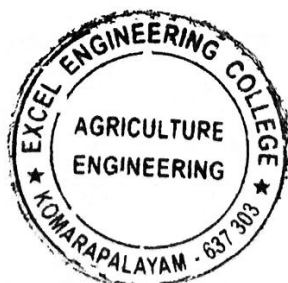
Year/Sem : IV/VII

AY: 2021-22

Sl. No.	Register No.	Student Name	Remarks
1	730918108001	ABARANJI C	
2	730918108002	AJITHKUMAR N	
3	730918108004	ANUSHA T P	
4	730918108006	BHAGYASHREE P	
5	730918108007	GOWTHAM M	
6	730918108008	LAVANYA G	
7	730918108009	NANDEESHA P G	
8	730918108010	NAVYA. K	
9	730918108011	NISHALINI M	
10	730918108012	PAVITHRA M	
11	730918108013	RAKSHANA A S	
12	730918108014	RAMYA P	
13	730918108016	SASIKUMAR K	
14	730918108017	SIVALAKSHMI M	
15	730918108019	VIJAYA BHARATHI J	
16	730918108020	VISHNU PRIYA V	

*S. P. S. K. P.*  
Course Coordinator 31/1/22

*[Signature]*  
HOD/Agri



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DEPARTMENT OF AGRICULTURE ENGINEERING

VALUE ADDED COURSE ON VALUE ADDITION AND PROCESSING OF AGRI PRODUCTS

PARTICIPANTS LIST

Year/Sem : IV/VII

AY: 2021-22

Sl. No.	Roll Number	Student Name	Remarks
1	20AG001	AADARSH SAINI	
2	20AG002	AADITHYA.P.K	
3	20AG004	ADARSH KUMAR	
4	20AG005	AJITH.P	
5	20AG007	ANKIT KUMAR	
6	20AG008	ASWANTH SIBI.M.S	
7	20AG009	AVINASH KUMAR	
8	20AG010	BALAMURUGAN.P	
9	20AG011	CHRISTY DEVAPRIYA.R	
10	20AG013	DEEPIKA.P	
11	20AG014	DEVIPRIYA.S.K	
12	20AG015	DHANA SEKAR.A	
13	20AG017	HARISHVISHNU.E	
14	20AG018	KAMALAKANNAN.M	
15	20AG020	KAPILAN.B	
16	20AG021	KARTHIK.V	
17	20AG022	KIRUBHAKARAN.L	
18	20AG023	KISHORE KUMAR.K.G	
19	20AG025	LOGESHWARAN.R	
20	20AG027	MAHALAKSHMI.R	
21	20AG028	MANISHARMAN.G	
22	20AG029	MANOJKUMAR.K	
23	20AG031	MOHANRAJ.S	
24	20AG032	MUKESHKUMAR.M	
25	20AG033	MUSKAN KUMARI	
26	20AG034	NANDHINI.N	
27	20AG035	NAVEEN KUMAR.K	
28	20AG036	NAVEENBALAJI.M	
29	20AG037	NITHISH KUMAR	
30	20AG038	NITHYA KALYANI.M	
31	20AG039	POOJA KUMARI	
32	20AG040	POOJA.S	
33	20AG041	PRAVEEN.M	
34	20AG043	RAGHU.R	
35	20AG044	RAJESWARI.P	
36	20AG045	RAJU KUMAR	
37	20AG046	RAVIRANJAN KUMAR	
38	20AG047	SARANRAJ.M	
39	20AG048	SEEVEETHA.P	
40	20AG049	SHAGANAS BANU.S	
41	20AG050	SIVAKUMAR.R	

42	20AG051	SONU KUMAR	
43	20AG052	SRISTI KUMARI	
44	20AG053	SURESH KUMAR.K	
45	20AG054	VARUN.G	
46	20AG056	VIGNESH.R	
47	20AG057	VIKNESE.A	
48	20AG058	VIKRAM KUMAR	
49	20AG059	VINODHA.S	
50	20AG060	YUVARAJ.B	
51	21EGLAGE01	ASHOKAN C	
52	21AG034	MD GUPHRAN ALI	
53	21AG035	MD SAHID	
54	21AG036	MOULITHARAN.C	
55	21AG037	NIRMALA KUMARI	
56	21AG038	PREETHI.C	
57	21AG040	PURUSHOTTAN KUMAR YADAV	
58	21AG041	RAJAKAVI.S	
59	21AG042	RAJESH.M	
60	21AG044	RAMYA.K	
61	21AG045	RANJEET KUMAR	
62	21AG046	RITIK RAJ	
63	21AG047	ROHITH.C	
64	21AG048	RUPESH KUMAR GUPTA	
65	21AG049	SAIF.MD	
66	21AG050	SANTHOSH.S	

*S.P. alk*  
Course Coordinator 31/1/22

*huc*  
Hod/Agri 31.1.22

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DEPARTMENT OF AGRICULTURE ENGINEERING

VALUE ADDED COURSE ON VALUE ADDITION AND PROCESSING OF AGRI PRODUCTS

ATTENDANCE SHEET

Year/Sem : IV/VII

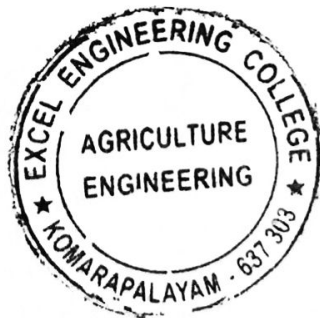
AY: 2021-22

Sl. No.	Roll No.	Student Name	20.01.22	21.01.22	22.01.22	24.01.22	25.01.22	26.01.22	27.01.22	28.01.22	29.01.22	31.01.22
1	730918108001	ABARANJI C	/	/	/	/	/	/	/	/	/	/
2	730918108002	AJITHKUMAR N	/	/	AB	/	/	/	/	/	/	/
3	730918108004	ANUSHA T P	/	/	/	/	/	/	/	/	/	/
4	730918108006	BHAGYASHREE P	/	/	/	/	/	/	/	/	/	/
5	730918108007	GOWTHAM M	/	/	/	AB	/	/	AB	/	/	/
6	730918108008	LAVANYA G	/	/	/	/	/	/	/	/	/	/
7	730918108009	NANDEESHA P G	/	/	/	/	/	/	/	/	/	/
8	730918108010	NAVYA. K	/	/	/	/	/	/	/	/	/	/
9	730918108011	NISHALINI M	/	/	/	/	/	/	/	AB	/	/
10	730918108012	PAVITHRA M	/	/	/	/	/	/	/	/	/	/
11	730918108013	RAKSHANA A S	/	/	/	/	/	/	/	/	/	/
12	730918108014	RAMYA P	/	/	/	/	/	AB	/	/	/	/
13	730918108016	SASIKUMAR K	/	/	/	/	/	/	/	/	/	/
14	730918108017	SIVALAKSHMI M	/	/	/	/	/	/	/	/	/	/
15	730918108019	VIJAYA BHARATHI J	/	/	/	/	/	/	/	AB	/	/
16	730918108020	VISHNU PRIYA V	/	/	/	/	/	/	/	/	/	/

*S. R. S. K. f*  
Course Coordinator 31/1/22

*[Signature]*  
HOD/Agri 31-1-22

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## DEPARTMENT OF AGRICULTURE ENGINEERING

## VALUE ADDED COURSE ON VALUE ADDITION AND PROCESSING OF AGRI PRODUCTS

## ATTENDANCE SHEET

**Year/Sem : II/III**

AY: 2021-22

[illegible]

42	20AG051	SONU KUMAR	/	/	/	/	/	/	/	/	/	/
43	20AG052	SRISTI KUMARI	/	/	/	/	/	/	/	/	/	/
44	20AG053	SURESH KUMAR.K	/	/	/	/	/	AB	/	/	/	/
45	20AG054	VARUN.G	/	/	/	/	/	/	/	/	/	/
46	20AG056	VIGNESH.R	/	/	/	/	/	/	/	/	/	/
47	20AG057	VIKNESE.A	/	/	/	/	/	/	/	/	/	/
48	20AG058	VIKRAM KUMAR	/	/	/	/	/	/	/	/	/	/
49	20AG059	VINODHA.S	/	/	/	/	/	/	/	/	/	/
50	20AG060	YUVARAJ.B	/	/	/	/	/	/	/	/	/	/
51	21EGLAGE01	ASHOKAN.C	/	/	/	/	/	/	/	/	/	/
52	21AG034	MD GUPHRAN ALI	/	/	/	/	/	/	/	/	/	/
53	21AG035	MD SAHID	/	/	/	/	/	/	/	/	/	/
54	21AG036	MOULITHARAN.C	/	/	/	/	/	/	/	/	/	/
55	21AG037	NIRMALA KUMARI	/	/	/	/	/	/	/	/	/	/
56	21AG038	PREETHI.C	/	/	/	/	/	/	/	/	/	/
57	21AG040	PURUSHOTTAN KUMAR YADAV	/	/	/	/	/	/	/	/	/	/
58	21AG041	RAJAKAVI.S	/	/	/	/	/	/	/	/	/	/
59	21AG042	RAJESH.M	/	/	/	/	/	/	/	/	/	/
60	21AG044	RAMYA.K	/	/	/	/	/	/	AB	/	/	/
61	21AG045	RANJEET KUMAR	/	/	/	/	/	/	/	/	/	/
62	21AG046	RITIK RAJ	/	/	/	/	/	/	/	/	/	/
63	21AG047	ROHITH.C	/	/	/	/	/	/	/	/	/	/
64	21AG048	RUPESH KUMAR GUPTA	/	/	/	/	/	/	AB	/	/	/
65	21AG049	SAIF.MD	/	/	/	/	/	/	/	/	/	/
66	21AG050	SANTHOSH.S	/	/	/	/	/	/	/	/	/	/

*S. P. Jeyaraj*  
Course Coordinator 31/1/22

*H. D. Agri*  
HOD/Agri 31/1/22

HEAD OF THE DEPARTMENT  
AGRICULTURE ENGINEERING  
EXCEL ENGINEERING COLLEGE  
KOMARAPALAYAM 637 303





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### CENTRE FOR TEACHING AND LEARNING & INTERNAL QUALITY ASSURANCE CELL

This is to certify that Mr. / Ms. ANUSHA T P of

AGRICULTURE ENGINEERING Department, **Excel Engineering College (EEC)** has attended the

**VALUE ADDED COURSE** on VALUE ADDITION AND PROCESSING OF AGRI PRODUCTS for 40 hours organised by

**Centre for Teaching and Learning, Internal Quality Assurance Cell and**

Department of AGRICULTURE ENGINEERING from **20.01.2022 to 31.01.2022**

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