PRAGATI ENGINEERING COLLEGE

(Autonomous)

#1-378, ADB Road, Surampalem – 533 437, Near Peddapuram, A.P
(Approved by AICTE, Permanently Affiliated to JNTUK, Kakinada)
(Recognized by UGC Under Sections 2(f) and 12 (b) of UGC act, 1956)
Ph: 08852 – 252233, 252234, 252235 Fax: 08852 – 252232, website:www.pragati.ac.in

DEPARTMENT OF MECHANICAL ENGINEERING

Academic year: 2025-26 Date: 19-06-2025

CIRCULAR

Additive Manufacturing Club of Mechanical Engineering Department in association with Career Guidance Cell is organizing a Quiz to the Mechanical Engineering students on 20th June 2025. The Theme is the Quiz on *Additive Manufacturing Processes".*

Event	:	Quiz.
Date of the Event	:	20th June 2025.
Venue	:	Online.

INCHARGE

HOD-ME

PRAGATI ENGINEERING COLLEGE (A) SURAMPALEM MECH - HOD

Copy to:

1. **HOD-ME.**
2. **Departmental file.**
3. **AM Club In-charge – ME.**
4. **Career Guidance Cell In-charge – ME.**

PRAGATI ENGINEERING COLLEGE

(AUTONOMOUS)

INDUSTRY 4.0 CLUBS

ADDITIVE MANUFACTURING CLUB

ORGANISED BY DEPARTMENT OF MECHANICAL ENGINEERING IN ASSOCIATION
WITH
CAREER GUIDANCE CELL

QUIZ ON ADDITIVE MANUFACTURING PROCESSES

https://forms.gle/1BryjZPfVbo5VcYMA

VENUE: Online
DATE: 20th June 2025
TIME: 10:00 AM Onwards

FACULTY COORDINATOR

Mr. P. Ram Prasad
Assistant Professor
Mechanical Engineering Department

STUDENT COORDINATOR

Mr. P.Eswar Prasanth
III Year Mechanical Engineering Department

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DEPARTMENT OF MECHANICAL ENGINEERING

Student Participation List

S.No	Roll Number	Name of the Student	Branch
1	24A35A0307	MANDAHARI BALA BHAVANI SANKAR	ME
2	23A31A0338	PILLA VEERANAGA VENKATASIVA	ME
3	23A31A0314	BETHI MANIKYA VARDHAN	ME
4	23A31A0347	SURLA UDAY	ME
5	23A31A0339	POTHU CHARLES STANLIN	ME
6	24A35A0315	SUNANI CHANDU	ME
7	23A31A0322	GUDABANDI KARUNKUMAR	ME
8	24A35A0304	DUNNA MOULI	ME
9	23A31A0327	KEERTHI SIVAJI GANESH	ME
10	23A31A0348	TANIKELLA APPALA NARASIMHAN	ME
11	23A31A0349	VADAPALLI SAI GANESH	ME
12	24A35A0302	DASAM LAKSHMI NARAYANA	ME
13	23A31A0310	ATCHIRTHI LOHITH DURGA NOOKA RAJESH	ME
14	24A35A0303	DOUDURI DIVAKAR	ME
15	23A31A0337	PESINGI VAMSI	ME
16	23A31A0304	RENUKA VIJAYA DURGA RUTTALA	ME
17	24A35A0316	TUMULURI DEVA CHANDRA RAO	ME
18	23A31A0320	GANDHAM VEERASAI SUBRAHMANYAM	ME
19	23A31A0315	BOORLU SIVASAI	ME

20	23A31A0346	SIDDIREDDI NAGA VEERENDRA	ME
21	23A31A0317	CHILLA VEERA VENKATA SATYANARAYANA	ME
22	24A35A0311	PEETHANI VENKAT NEELESH KUMAR	ME
23	23A31A0305	REVATHI MIDATANA	ME
24	23A31A0351	VASAMSETTI VENKATA KOWSHIK	ME
25	23A31A0307	AKETI VEERA SIVA CHAKRADHAR	ME
26	24A35A0301	ANANTHA DEEPAK	ME
27	24A35A0310	PALLA RISHIKESH	ME
28	23A31A0340	POTHULA BHANU	ME
29	24A35A0308	MEDIPUDI DURGA SURESH	ME
30	23A31A0306	SANA YOHANNA	ME
31	23A31A0328	KUNAPUREDDY SATYA CHAKRA DHORA	ME
32	23A31A0324	IVVANDI VEERA GANESH	ME
33	23A31A0345	SADANALA SIVASAI	ME
34	23A31A0325	KANDIRELLI VEERA MANIKANTA	ME
35	23A31A0334	PALIVELA CHAITANYAKUMAR	ME
36	23A31A0303	NAGIREDDY SWAPNA	ME
37	24A35A0305	KALIDASU SATWIK	ME
38	23A31A0312	BANDARU B S D V POTHURAJU	ME
39	23A31A0326	KATTA KAMESWARA RAO	ME
40	24A35A0313	SALADI MANIKANTA	ME
41	23A31A0301	BANDI SRI RAMYA	ME

INCHARGE

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ADDITIVE MANUFACTURING CLUB

Quiz on Additive Manufacturing Processes

ADDITIVE MANUFACTURING CLUB ORGANISED BY DEPARTMENT OF MECHANICAL ENGINEERING IN ASSOCIATION WITH CARRER GUIDANCE CELL

* Indicates required question

1. What is additive manufacturing? *

Mark only one oval.

- A process that removes material to create parts
- A process that adds material layer by layer to create parts
- A process that uses chemical reactions to form parts
- A process that melts a block of metal to shape parts

2. Which of the following is NOT a common additive manufacturing technique? *

Mark only one oval.

- Fused Deposition Modeling (FDM)
- Selective Laser Sintering (SLS)
- Injection Molding
- Stereolithography (SLA)

3. In Fused Deposition Modeling (FDM), what material form is primarily used? *

Mark only one oval.

- Liquid resin
- Powder
- Filament
- Sheet

4. Selective Laser Sintering (SLS) typically uses what type of material? *

Mark only one oval.

- Liquid resin
- Thermoplastic powder
- Metal wire
- Solid sheets

5. Which additive manufacturing process cures liquid photopolymer resin using a laser? *

Mark only one oval.

- FDM
- SLS
- SLA
- Binder Jetting

6. What is a key advantage of additive manufacturing compared to traditional subtractive methods? *

Mark only one oval.

- Higher material waste
- Ability to produce complex geometries easily
- Requires expensive molds
- Slower production time

7. In metal additive manufacturing, which process uses a laser to fully melt metal powder? *

Mark only one oval.

- Selective Laser Melting (SLM)
- Electron Beam Melting (EBM)
- Both A and B
- Binder Jetting

8. Which additive manufacturing process uses an electron beam as its heat source? *

Mark only one oval.

- FDM
- EBM
- SLA
- SLS

9. What is a common post-processing step for parts made by additive manufacturing? *

Mark only one oval.

- Painting
- Heat treatment
- Machining
- All of the above

10. Which factor primarily affects the surface finish quality in additive manufacturing? *

Mark only one oval.

- Layer thickness
- Color of the material
- Speed of printing only
- Ambient temperature only